

LIBRARY

FEB 2000

National
Atmospheric Administration
U.S. Dept. of Commerce

INDIA WEATHER REVIEW, 1958.

Monthly Weather Report

JANUARY

Published by authority of the Government of India

Chief features:

- (1) Feeble activity of the western disturbances and
- (2) Less than usual activity of the easterly waves in the south Peninsula.

Although as many as nine western disturbances affected the northern parts of the country most of them were feeble. The first two moved across the extreme north of the country and caused only local or scattered rain and snow in Jammu and Kashmir on 2nd and 8th. The third while moving across the northern divisions of West Pakistan, induced a 'low' over Sind and West Rajasthan on 10th. The western disturbance moved away across Jammu and Kashmir by 12th and the induced low moved away across the Punjab-Kumaon hills by 15th. These caused a spell of rain or snow in Jammu and Kashmir, Himachal Pradesh and the Punjab-Kumaon hills in the second week of the month. The fourth western disturbance was feeble and caused only scattered rain or snow in Jammu and Kashmir on 22nd. The fifth one was responsible for widespread rain in Himachal Pradesh and for local rain or snow in Jammu and Kashmir on 27th. The sixth one was comparatively active. It moved eastwards across the north Arabian Sea and adjoining south Baluchistan on 24th and lay as a trough of low pressure over east Rajasthan and adjoining Madhya Pradesh on 25th. It shifted slowly eastwards, lay over Madhya Pradesh and the neighbouring districts of southeast Uttar Pradesh and of Chota Nagpur on 28th and moved away across the Assam Himalayas by 31st. In association with it marked incursion of moist air took place over the country. Thundershowers were fairly widespread over the region extending from east Madhya Pradesh and east Uttar Pradesh to Sub-Himalayan West Bengal on 29th and were local or fairly widespread in northeast India on 30th. A few hailstorms were also reported from Vidarbha, Madhya Pradesh and Bihar on 29th. The remaining three western disturbances of the month moved in quick succession between 27th and 30th, giving fairly widespread or local precipitation in and near the Punjab-Kumaon hills.

Tabular statement showing the movement and activity of each western disturbance during the month of January 1958 is given below.

Statement showing the movement and activity of Western disturbances during the month of January 1958.

S. No.	Period	Course	Region affected	Nature of precipitation	Period	Remarks
1.	1st-2nd	Afghanistan-N.W.F.P.- Punjab (P)-Jamm and Kashmir.	Jammu and Kashmir	Local rain or snow	2nd	
2.	7th-8th	Jammu and Kashmir	Jammu and Kashmir	Scattered rain or snow	8th	
3.	9th-11th	Southeast Iran-south Afghanistan-N. W. F. P. Jammu and Ka shmir.	Jammu and Kashmir Himachal Praesh	Scattered rain or snow Scattered rain	9th-10th 11th	
3.	(a) 10th-15th	Sind-West Rajasthan- Punjab (I)-northwest Uttar Pradesh.	Punjab (I) Himachal Pradesh Kumaon hills Jammu and Kashmir	Scattered rain Fairly widespread rain or snow Scattered rain or snow Scattered rain or snow Local rain or snow	14th-16th 15th 14th and 16th 15th-16th 15th	Induced by western disturbance No. 3.
4.	19th-22nd	N.W.F.P.-Jammu and Kashmir	Jammu and Kashmir	Scattered rain or snow	22nd	
5.	23rd-27th	Afghanistan-N. W.F.P. P. Punjab (P), Punjab (I)-northwest Uttar Pradesh	Punjab (I) and north- west Uttar Praesh Himachal Pradesh Jammu and Kashmir	Scattered rain Widespread rain Local rain or snow	26th-27th 27th 27th	
6.	24th-31st	South Baluchistan-Sind- Rajasthan-Madhya Pradesh-Chota Na gpur-West Bengal- Assam.	Madhya Pradesh Vidarbha Uttar Pradesh	Local or scattered thunder- showers Local thundershowers Local or scattered thunder- showers	28th-30th 29th 28th-30th	A few hailstorms were reported on 29th. A few hailstorms were reported on 29th.

"Copyright © 1959 by Manager of Publications, Government of India, Delhi-8"

QC
990
139
152
1958

National Oceanic and Atmospheric Administration

Environmental Data Rescue Program

ERRATA NOTICE

One or more conditions of the original document may affect the quality of the image, such as:

Discolored pages
Faded or light ink
Binding intrudes into the text

This document has been imaged through the NOAA Environmental Data Rescue Program. To view the original document, please contact the NOAA Central Library in Silver Spring, MD at (301) 713-2607 x124 or www.reference@nodc.noaa.gov.

Information Manufacturing Corporation
Imaging Subcontractor
Rocket Center, West Virginia
September 14, 1999

S. No.	Period	Course	Region affected	nature of precipitation	Period	Remarks
		Bihar		Fairly widespread or local thundershowers	29th-30th	A few hailstorms were reported on 29th.
		Chota Nagpur		Fairly widespread thundershowers	29th-30th	
		Orissa		Fairly widespread thundershowers	29th	
		West Bengal		Fairly widespread or local thundershowers.	29th-30th	
		Assam		Local or scattered thundershowers	29th-31st	
7.	27th-28th	Punjab (P)-Punjab (I) northwest Uttar Pradesh.	Punjab-Kumaon hills Himachal Pradesh	Fairly widespread rain or snow Fairly widespread rain or snow	28th 28th	
8.	28th-29th	Punjab (P) Punjab (I) Himachal Pradesh	Punjab (I) and Himachal Pradesh	Fairly widespread thunder showers	29th	
9.	29th-30th	Jammu and Kashmir	Punjab-Kumaon hills and Himachal Pradesh.	Local rain or snow	30th	

As stated earlier, the activity of the easterly waves in the south Peninsula was below normal. The passage of the first easterly wave was associated with local thundershowers in the Madras and south Mysore States on 3rd January and with scattered thundershowers in the Madras State on 2nd and 4th. A second easterly wave caused scattered thundershowers in the Madras State on 30th and 31st and in north Mysore and Kerala on 31st. Otherwise, the weather remained mainly dry over the south Peninsula during the entire month.

Between 19th and 24th January, the night temperatures were generally below normal in Bihar, Chota Nagpur, Madhya Pradesh, Vidarbha, Telangana and north Maharashtra, being appreciably so in southwest Madhya Pradesh and Vidarbha from 19th to 21st. During the rest of the month, the night temperatures were generally normal or above normal over most of the country.

Total rainfall during the month was in moderate excess in Orissa, in slight excess in Assam, Chota Nagpur and east Rajasthan and normal in West Bengal, Bihar, east Uttar Pradesh and west Rajasthan. It was in slight defect in Saurashtra and Kutch and south Mysore, in moderate defect in the Bay Islands, west Madhya Pradesh, the Konkan and north Mysore and in large defect over the rest of the country outside Telangana and Kerala where there was no rain.

Mean maximum temperature was above normal over the country outside Sub-Himalayan West Bengal, Jammu and Kashmir, Maharashtra, Andhra Pradesh and the States of Madras, Mysore and Kerala where it was normal. Mean minimum temperature was above normal over the country outside Jammu and Kashmir, Vidarbha, coastal Andhra Pradesh, the States of Madras, Mysore and Kerala and the Arabian Sea Islands where it was normal.

Mean relative humidity was in excess in west Uttar Pradesh, the Punjab(I), east Rajasthan, Saurashtra and Kutch and the Arabian Sea Islands and in defect in Chota Nagpur and east Madhya Pradesh. Elsewhere over the country, it was normal.

Mean cloud amount was in excess in east Uttar Pradesh, east Rajasthan, east Madhya Pradesh Bombay State and north Mysore and normal over the rest of the country outside Rayalaseema where it was in defect.

Table I contains the divisional and sub-divisional means of rainfall, temperature, humidity and cloud amount for the 14 chief political divisions and the 30 sub-divisions. The stations whose observations are used for preparing these means are given in the subsequent tables.

The highest maximum temperature given for any station in the accompanying tables is that recorded within the 24 hours ending at 0830 hrs. IST of the date noted in the succeeding column; similarly the heaviest fall in 24 hours for any station denotes the amount recorded during the 24 hours ending at 0830 hrs. IST of the date given in the succeeding column.

POONA 5,
The 20th February, 1960.

C. RAMASWAMY,
for Director General of Observatories.

Errata to M.W.R. for the month January, 1958 (Pausa 11 - Magha 11, 1879 Saka)

Page No.	Station	Hour	Column	For	Read
----------	---------	------	--------	-----	------

Text portion

2 Read '29th - 30th' under period 9. instead of '29th - 3th'

Table I - Division

3	12 Madras State	1	Madras	Madras State
---	-----------------	---	--------	--------------

Table I - Sub-division

3	5 Orissa	6	+ 5	- 5
---	----------	---	-----	-----

Table II

4	Sibsagar	12	-12.5	+12.5
5	Ranchi (C.W.O.)	10	6.3	6.3 (1)
5	Ranchi (C.W.O.)	17	9.6	9.6 (1)
5	Daltonganj	10	1.3 (1)	1.3
5	Daltonganj	17	50 (1)	5.0
5	Motihari	1	Motihari	Motihari (R)
5	Dumka	7	- 0.6	+ 0.6
6	(Heading)	23	Blank	Thunder heard
6	Dehra Dun	23	0	3
6	New Delhi	9	2.4	24
6	Chandigarh	9	17.18	17, 18
6	Jammu	9	2.6	26
6	Kotah	16	- 0.4	+ 0.4
7	Neemuch	4	29.4	29.3
7	Jabalpur	16	+ 0.7	- 0.7
7	Idar	2	25.1	29.1
7	Baroda	18	0.3	3.0
7	Bhuj (Aerodrome)	2	28.9	28.8
8	Ahmedabad	7	- 1 + 9	+ 1.9
8	Poona	29	..	0
8	Nagpur	16	- 0.2	+ 0.2
8	Chand	7	- 0.7	+ 0.7
8	Nizamabad	19	- 0.6	+ 0.6
8	Bhadrachallam		17.2	17.0
8	Arogyavaram	, 25	0,1	1,0
9	Tuticorin		Blank	0
9	Pamban	13	6	6.9
9	Mathurai	2	30.0	30.9
9	Minicoy	1	Miniloy*	Minicoy †
9	Mawsynram	14	9	29
10	Mukteswar (Kumaon)	12	+ 17.3	- 17.3
10	Simla	12	+ 23.5	- 23.5
10	Hirakud	29	Blank	0
11	Sallyana	1	Sallyana*	Sallyana ‡
11	(Foot Note)	-	(Not given)	† Data not reliable

Table III

12	Dibrugarh	0830	6	..	+ 0.8
12	Dibrugarh (Mohanbari Aerodrome)	2330	8	11.3	11.8
12	North Lakhimpur	0830	19	1	5
13	Dhubri (Rupsi Aerodrome)	1730	19	1	0
13	Silchar	0830	14	- 0.2	+ 0.2
13	Imphal	1730	16	5	0
13	Jalpaiguri	0830	5	1009.1	1009.0
14	Burdwan	0830	12	4	- 4
15	Titilagarh	0830	12	Blank	..
15	Ranchi	0830	23	22	2
15	Ranchi (C.W.O.)	1730	2	1730	† 1730
15	Ranchi (C.W.O.)	1730	13, 15	2.4 (1), 3.5 (1)	2.4, 3.5
15	Gaya	0530	27	7	17
15	(Foot Note)			(E) Mean of 19 days.	† observations for 19 days.

Page No.	Station	Hour	Column	For	Read
16	Lucknow	0830	5, 6	1006.4, + 2.0	.. , ..
16	Lucknow	1730	5	1003.0	..
17	Aligarh	0830	4	1010.1	1019.1
18	Jaisalmer	1730	10	8.3	8.8
18	Phalodi	0830	10	8.7	8.3
19	(Sub-heading)	-	1	(Not given)	Rajasthan (East) Alwar etc. ---
19	Jaipur (Sanganer Aerodrome)	2330	23	5	0
19	Rajgarh	0830	10	9.	9.7
20	Raigarh	0830	28	1	0
23	Poona	0830	12	+ 9	+ 6
23	Sholapur	2330	9	9.9	9.6
23	Buldhana	1730	20	0	7
23	Akola	1730	19	Blank	0
24	Visakhapatnam	0230	25	0	1
24	Hyderabad (Begumpet Aerodrome)	0830	4	1017.9	1017.6
25	Pamban	0830	14	- 0.1	0
25	Nagapattinam	0830	14	+ 0.8	- 0.8
25	Kallakurchi	0830	5	1002.2	1002.0
25	Vellore	0830	26	0	1
25	Vellore	2330	26	9	0
25	Vellore	2330	27	0	10
25	Madras	0230	27	0	1
25	Madras	0530	27	0	1
25	Madras	0830	14	+ 0.4	- 0.4
26	Mangalore	0830	3	1.5	22
26	Mysore	0830	3	67	767
26	Bangalore (Central Observatory)	0230	3	(Not clear)	921
26	Bangalore (Aerodrome)	0530	3	8	897
26	Bangalore (Aerodrome)	0530	7	16.2	16.5
27	Mussooree	0830	12	- 12	+ 12
28	Mahabaleshwar	0830	12	2	- 2
28	Ootacamund	0830	3	2247	2249
28	Baramul	1730	9	15.4	15.7

* * * *

Page No.	Station	Time in I.S.T.	Ht. in Km.	Existing entry				Correct entry			
				n	V	v	D	n	V	v	D
40	Jharsuguda	1730	4.5	2.70				27.0			
45	Veraval	0530									
45	Veraval	0530									
46	Bamrauli	1130	10.5					29			
46	Bamrauli	1730	10.5					2 1			

TABLE I.—DIVISIONAL AND SUB-DIVISIONAL MEANS—JANUARY, 1958 (PAUSA II—MAGHA II, 1879 SAKA)

	Rainfall (millimetres)	Cloud									Cloud								
		Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity %	0830 hrs. I.S.T.	1730 hrs. I.S.T.	0830 hrs. I.S.T.	1730 hrs. I.S.T.	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity %	0830 hrs. I.S.T.	1730 hrs. I.S.T.	0830 hrs. I.S.T.	1730 hrs. I.S.T.		
1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9		
Division																			
1. Assam (Including Manipur, Tripura).	22.3	116	24.3	12.5	84	68	3.5	2.5	8. Rajasthan . .	7.7	110	26.0	9.6	66	34	2.1	2.1		
+3.1	..	+1.2	+2.0	-4	..	+0.4	..		9. Madhya Pradesh . .	+0.7	..	+2.5	+1.9	+9	..	0	..		
2. West Bengal . .	11.4	102	27.0	14.2	71	53	1.7	1.5	10. Bombay . .	7.0	55	27.5	11.6	60	34	2.5	2.5		
+0.2	..	+1.7	+2.2	-3	..	0	..		-5.8	..	+1.7	+1.6	-3	..	+0.7	..			
3. Orissa . .	13.1	139	28.9	16.4	69	54	2.1	2.9	11. Andhra Pradesh . .	0.6	7	30.2	18.1	72	50	2.1	2.6		
+3.7	..	+1.5	+1.6	-5	..	+0.3	..	-8.1	..	+0.9	+0.9	-2	..	-9.3	..				
4. Bihar . .	16.0	103	26.7	11.2	68	51	1.7	2.3	12. Madras . .	13.4	35	29.5	21.0	80	61	3.4	3.2		
+0.3	..	+2.5	+1.4	-6	..	0	..	-24.5	..	+0.2	+1.0	-1	..	+0.1	..				
5. Uttar Pradesh . .	11.3	52	23.8	9.6	80	52	2.3	2.3	13. Mysore . .	2.3	59	29.5	17.1	65	37	2.3	3.0		
-10.5	..	+1.6	+1.9	+5	..	+0.3	..	-1.6	..	+0.8	-1	..	+0.3	..					
6. Punjab (India) (Including Himachal Pradesh and Delhi)*	14.2	48	22.7	7.9	85	55	2.7	2.6	14. Kerala . .	0	31.6	22.9	74	64	2.2	2.6			
-15.2	..	+2.0	+1.6	+10	..	0	..	-17.2	..	+0.6	+0.6	-1	..	0	..				
7. Jammu & Kashmir	34.0	31	8.3	-1.9	73	67	5.6	4.8	Mean of India (Excluding Jammu & Kashmir and Himachal Pradesh)	7.7	62	27.7	13.7	69	45	2.3	2.4		
	-74.3	..	+1.0	+0.5	+2	..	+0.5	..	-4.7	..	+1.5	+1.6	0	..	+0.3	..			
Sub-division																			
1. Bay Islands . .	28.7	63	31.5	23.5	70	77	4.0	4.2	15. Madhya Pradesh, (West).	6.5	63	27.2	11.4	60	32	2.5	2.4		
-16.8	..	+2.5	+1.5	-1	..	+0.6	..	-3.9	..	+1.5	+1.6	0	..	+0.8	..				
2. Assam (Including Manipur, Tripura).	22.3	116	24.3	12.5	84	68	3.5	2.5	16. Madhya Pradesh, (East).	7.7	48	27.9	10.5	61	37	2.5	2.6		
+3.1	..	+1.2	+2.0	-4	..	+0.4	..	-8.5	..	+2.0	+1.6	-8	..	+0.6	..				
3. Sub-Himalayan West Bengal.	8.7	93	24.5	11.9	79	53	1.3	1.5	17. Gujarat . .	0.3	17	30.9	14.1	59	29	1.8	1.5		
-0.7	..	+0.9	+1.7	+1	..	+0.1	..	-1.5	..	+1.2	+2.4	+2	..	+0.5	..				
4. Gangetic West Bengal.	12.5	104	27.8	14.8	69	53	1.3	1.6	18. Saurashtra and Kutch.	1.3	76	29.3	14.6	61	40	1.6	1.6		
+0.5	..	+2.0	+2.3	-4	..	0	..	-0.4	..	+1.9	+2.7	+8	..	+0.3	..				
5. Orissa . .	13.1	139	28.9	16.4	69	54	2.1	2.9	19. Konkan . .	1.5	52	30.3	20.0	64	61	2.1	2.5		
+3.7	..	+1.5	+1.6	+5	..	+0.3	..	-1.4	..	+1.8	+1.4	-5	..	+0.6	..				
6. Chota Nagpur	19.7	111	27.3	11.9	64	45	2.2	2.6	20. Maharashtra . .	0.5	10	30.7	14.3	58	33	2.1	2.5		
+1.9	..	+2.3	+1.7	-8	..	+0.3	..	-4.3	..	+0.7	+1.4	+5	..	+0.6	..				
7. Bihar . .	14.5	98	26.3	10.7	71	55	1.3	2.1	21. Vidarbha . .	3.9	44	30.6	14.3	53	29	2.4	2.8		
-0.3	..	+2.7	+1.3	-4	..	-0.3	..	-5.0	..	+1.2	+0.9	-5	..	+0.7	..				
8. Uttar Pradesh, (East.).	15.7	92	24.6	9.9	79	53	2.3	2.1	22. Coastal Andhra Pradesh.	0.2	2	29.8	19.0	77	63	2.6	2.7		
-1.4	..	+1.6	+1.7	+2	..	+0.5	..	-10.2	..	+1.0	+0.7	-1	..	-0.1	..				
9. Uttar Pradesh, (West).	6.9	26	23.2	9.4	80	52	2.4	2.6	23. Telangana . .	0	0	29.9	15.8	67	33	1.8	2.4		
-19.5	..	+1.5	+2.1	+8	..	+0.1	..	-7.6	..	+0.8	+1.1	-2	..	-0.2	..				
0. Punjab (India) (Including Delhi)	14.2	48	22.7	7.9	85	55	2.7	2.6	24. Rayalseema . .	1.9	29	31.9	18.8	69	38	1.1	2.5		
-15.2	..	+2.0	+1.6	+10	..	0	..	-4.7	..	+0.6	+1.3	-3	..	-0.9	..				
11. Himachal Pradesh	58.3	..	19.8	6.1	96	61	6.9	5.1	25. Madras State . .	13.4	35	29.5	21.0	80	61	3.4	3.2		
	..	..	..	..	..	..	..		-24.5	..	+0.2	+1.0	-1	..	+0.1	..	
2. Jammu & Kashmir	34.0	31	8.3	-1.9	73	67	5.6	4.8	26. Coastal Mysore . .	0.3	11	31.8	21.2	69	59	2.3	2.5		
-74.3	..	+1.0	+0.5	+2	..	+0.5	..	-2.5	..	+0.1	+0.5	+1	..	-0.1	..				
3. Rajasthan, (West)	6.6	108	25.9	8.9	64	33	2.1	1.9	27. Mysore, (North) . .	2.1	51	29.7	16.6	58	32	2.0	3.2		
+0.5	..	+3.1	+3.1	+5	..	-0.4	..	-2.0	..	0	+0.8	-3	..	+0.5	..				
4. Rajasthan, (East)	8.7	112	26.1	10.0	68	35	2.2	2.2	28. Mysore (South) . .	3.4	85	28.6	16.3	71	33	2.7	3.0		
+0.9	..	+2.0	+1.3	+12	..	+0.4	..	-0.6	..	0	+0.9	+1	..	+0.2	..				
									29. Kerala . .	0	0	31.6	22.9	74	64	2.2	2.6		
									-17.2	..	+0.6	+0.6	-1	..	0	..			
									30. Arabian Sea Islands.	0.3	1	31.1	23.4	83	72	2.9	3.3		
									-31.4	..	+1.1	+0.3	+9	..	0	..			

Note.—The entries in the second line for each division and sub-division indicate departures from normal.

*Data of Himachal Pradesh not included.

4 TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—JANUARY, 1958 (PAUSA 11—MAGHA 11, 1879 SAKA)

Division and station	Air temperature in °C									Rainfall in millimetres						No. of rainy days (2.5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with								
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Heaviest fall in 24 hours	Date	Total fall in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Lightning		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Bay Islands																													
Maya Bandar	27.5	..	29.4	4	23.4	..	20.1	17	0	0	..	0	..	..	15.0	8.1	..	0	0	0	0	0	0	0	0	0	0	0	0
Long Island	30.7	..	31.7	29.30	23.0	..	20.6	17	1.3	1.3	..	1.3	6	0	..	1.5	0.7	..	1	0	0	1	0	0	0	0	0	0	0
Port Blair	31.5	+2.5	32.7	25.31	23.5	+1.5	19.7	17	4.4	28.7	-16.8	14.4	1	2	-0.3	13.0	11.0	-2.7	3	0	0	1	3	0	0	0	0	0	0
Car Nicobar	30.6	..	31.5	25	25.5	..	19.3	18	26.4	30.7	..	22.1	30	3	..	9.5	7.3	..	4	0	0	1	0	0	0	0	0	0	0
Nancowry	32.2	..	33.1	15.19	25.7	..	23.9	3	19.2	23.8	..	10.9	29	4	..	0.3	0.3	..	7	0	0	2	0	0	0	0	0	0	0
Kondul	29.2	..	29.7	4 days	26.0	..	22.8	8	88.7	107.4	..	31.3	8	8	..	12.6	11.7	..	11	0	0	2	0	0	0	0	0	0	0
Assam (Including Manipur, Tripura)																													
Pasighat	21.3	..	25.3	3	13.3	..	10.2	14	47.0	98.4	..	20.1	6	7	..	10.6	14.0	..	12	0	0	4	0	0	0	0	0	0	0
Digboi	21.9	..	25.1	5.19	11.7	..	7.6	21	13.7	48.4	..	12.7	31	5	..	4.0	3.5	..	7	0	0	0	2	2	0	0	0	0	0
Dibrugarh	22.8	+0.9	26.4	3	12.2	+2.1	8.9	21.22	6.4	27.8	-10.1	8.2	30	6	+2.3	2.9	1.8	+0.8	7	0	0	2	2	0	0	0	0	0	0
Dibrugarh (Mohanbari Aerodrome)	22.3	..	26.0	5	10.3	..	6.3	21	8.6	32.8	..	12.7	31	5	..	5.3	3.0	..	6	0	0	3	12	0	0	0	0	0	0
North Lakhimpur	22.5	..	25.7	5	9.9	..	5.2	21	5.6	26.7	..	22.9	30	1	..	5.7	4.6	..	4	0	0	1	0	0	0	0	0	0	0
Sibsagar	23.1	+1.7	26.7	4	11.7	+1.9	7.9	21	4.4	43.2	-12.5	29.5	31	4	+0.5	3.7	2.1	+0.3	6	0	0	0	11	0	0	0	0	0	0
Jorhat	..	..	..	..	11.1	..	7.8	21	7.9	13.4	..	10.9	31	2	..	..	..	..	2	0	0	0	25	0	0	0	0	0	0
Golaghat	23.9	..	26.7	1	..	..	..	..	1.8	6.9	..	3.8	31	1	..	(a)	(a)	..	3	0	0	0	0	0	0	0	0	0	0
Gohpur	22.9	..	25.4	4.5	10.5	..	6.2	20	9.1	30.3	..	14.0	30	3	..	4.6	4.2	..	3	0	0	0	0	0	0	0	0	0	0
Tezpur	24.6	+1.4	27.1	3.5	13.1	+1.7	10.1	11	7.3	16.7	+2.0	10.9	31	2	+0.5	6.7	5.0	+2.3	2	0	0	1	0	0	0	0	0	0	0
Tezpur (P.B.O.)	23.8	..	26.2	4	12.3	..	9.9	10	2.3	16.0	..	10.4	30	2	..	4.9	3.2	..	2	0	0	0	3	0	0	0	0	0	0
Majbat	..	..	..	..	..	..	..	..	1.3	14.0	..	14.0	30	1	..	6.2	4.0	..	1	0	0	1	5	0	0	0	0	0	0
Chaparmukh (R)	24.5	..	28.2	21	11.2	..	8.2	20.21	0	22.3	..	22.3	30	1	..	5.5	3.6	..	1	0	0	0	0	0	0	0	0	0	0
Tangla	24.6	+0.9	26.3	7	13.1	+2.5	10.2	19.20	0	19.6	+9.9	19.6	30	1	-0.1	3.1	1.5	-0.4	1	0	0	0	13	0	0	0	0	0	0
Gauhati	24.6	..	28.4	7	10.8	..	7.7	19	1.5	2.0	..	2.0	30	0	..	5.6	3.0	..	1	0	0	0	10	0	0	0	0	0	0
Gauhati (Bhorjor Aerodrome)	25.1	..	27.3	3	..	..	..	..	0	5.1	..	5.1	30	1	..	..	..	..	1	0	0	0	0	0	0	0	0	0	0
Rangiya	25.1	..	27.1	25	11.5	..	8.3	19	1.5	1.5	..	1.5	30	0	..	4.2	2.5	..	1	0	0	0	10	0	0	0	0	0	0
Goalpara	25.5	..	27.1	25	11.9	..	8.3	19	1.5	1.5	..	1.5	30	0	..	4.2	2.5	..	1	0	0	0	10	0	0	0	0	0	0
Dhubri	23.6	+0.6	26.4	7	14.5	+2.7	11.9	19	0	0.3	-7.6	0.3	29	0	-0.8	4.4	3.9	-1.1	1	0	0	0	5	1	0	0	0	0	0
Dhubri (Rupsi Aerodrome)	25.5	..	26.8	6	11.5	..	8.1	19	1.3	1.8	..	1.3	30	0	..	6.0	3.4	..	2	0	0	0	10	0	0	0	0	0	0
Tura	24.8	..	26.8	29	14.3	..	12.2	30	3.0	3.1	..	3.1	30	1	..	5.3	5.6	..	1	0	0	0	0	0	0	0	0	0	0
Agartala	27.4	..	29.9	28.29	11.8	..	7.4	22	1.6	2.1	..	1.3	30	0	..	6.8	3.8	..	2	0	0	0	3	0	0	0	0	0	0
Silchar	25.6	0	28.3	22	13.3	+2.0	10.8	7	6.1	40.4	+20.8	22.6	17	3	+1.5	2.5	1.6	-0.2	3	0	0	1	2	0	0	0	0	0	0
Silchar (Kumbhigram Aerodrome)	26.4	..	28.4	7	12.7	..	10.4	19	6.3	33.1	..	20.8	16	3	..	5.7	7.9	..	3	0	0	2	0	0	0	0	0	0	0
Imphal	22.0	..	24.3	29	4.7	..	1.0	20	0	11.4	..	5.1	16	2	..	8.6	4.9	..	3	0	0	0	17	0	0	0	0	0	0
Haflong	22.1	..	24.6	29	10.9	..	8.2	31	3.1	10.0	..	5.1	30	2	..	..	..	..	3	0	0	0	7	0	0	0	0	0	0
Lumding	26.0	+2.9	28.8	18	9.7	+1.3	5.7	20	6.1	8.1	-6.1	4.5	30	1	-0.4	2.2	1.0	..	4	0	0	0	2	0	0	0	0	0	0
Sub-Himalayan West Bengal																													
Cooch Behar (C.W.O.)	25.0	..	26.4	6	10.4	..	7.4	18	1.5	2.0	-4.6	1.5	30	0	-0.5	6.0	2.8	..	2	0	0	0	12	0	0	0	0	0	0
Jalpaiguri	22.7	-0.9	24.3	3	12.0	+1.4	8.5	18	4.8	21.8	+13.9	14.2	30	2	+1.3	6.6	4.2	+2.8	2	0	0	2	3	0	0	0	0	0	0
Bagdogra	24.4	..	25.8	4	10.0	..	6.8	18.31	0	16.8	..	9.7	30	2	..	7.7	4.9	..	2	0	0	2	3	0	0	0	0	0	0
Malda	26.3	+2.7	29.4	27	11.9	+1.9	9.8	19	0	2.3	-11.4	2.3	29	0	-0.9	6.0	4.3	0	1	0	0	0	1	0	0	0	0	0	0
Gangetic West Bengal																													
Dum Dum	28.7	..	31.7	17	14.1	..	9.6	20	13.2	13.2	..	8.1	30	2	..	5.8	3.3	..	2	0	0	1	16	0	0	0	0	0	0
Calcutta	28.9	+2.5	31.9	17.28	15.8	+3.2	12.1	20.21	7.6	10.4	+1.0	9.4	30	1	+0.2	6.0	3.3	+0.1	2	0	0	1	14	0	0	0	0	0	0
Barrackpore	27.9	..	31.1	28	13.8	..	9.4	20	13.0	17.3	..	8.9	30	3	..	..	..	..	3	0	0	1	17	0	0	0	0	0	0
Saugor Island	26.2	+1.2	28.1	7	18.9	+4.1	14.6	20	1.5	26.7	-16.3	14.2	10	2	+1.1	..	..	..	2	0	0	0	3</						

(R) Register not received. (a) Mean of 30 days. (b) Mean of 29 days.

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—JANUARY, 1958 (PAUSA II—MAGHA II, 1879 SAKA) 5

Division and station	Air temperature in °C									Rainfall in millimetres						No. of rainy days (2.5mm or more)	Wind speed km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.3mm. or more)	Snow or sleet	Hail	Thunder head	Fog	Dust storm	Ground frost	Gale	Squall	Line squall		
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29		
1																														
Orissa—(contd.)																														
Chandbali .	25.7	-1.7	31.7	17	16.6	+2.2	13.3	22	0	9.7	+4.6	9.7	30	1	+0.3	9.2	6.4	+0.6	1	0	0	0	0	0	0	0	0	0		
Cuttack .	30.9	+2.5	33.9	16	17.2	+1.8	13.6	1,21	4.6	28.5	+20.4	28.5	30	1	+0.3	4.5	3.5	+1.7	1	0	0	1	2	0	0	0	0	0		
Bhubaneswar .	30.4	..	33.6	17	17.4	..	13.7	22	5.1	29.7	..	29.7	29	1	..	11.2	8.6	..	1	0	0	1	2	0	0	0	0	0		
Puri .	28.3	+1.6	29.4	17,30	19.4	+1.8	16.6	21	0	2.5	-7.9	2.5	30	1	+0.4	14.3	13.3	+3.3	1	0	0	1	0	0	0	1	0	0		
Gopalpur .	29.1	+2.1	30.9	18	17.7	+0.9	15.0	1	0	26.7	+19.6	17.0	31	2	+1.5	..	..	..	2	0	0	1	0	0	0	0	0	1	0
Koraput .	26.4	..	29.4	29	12.1	..	8.9	1	0	16.5	..	16.5	30	1	..	..	..	..	1	0	0	0	0	0	0	0	0	0	0
Titilagarh .	28.7	..	31.4	28	14.2	..	9.9	20	0	1.3	..	1.3	30	0	..	2.8	1.9	..	1	0	0	0	0	17	0	0	0	0	0	
Bolangir .	29.4	..	32.3	30	13.9	..	9.7	1	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Angul .	29.5	+1.8	31.7	17	14.7	+1.3	11.1	1,21	0	11.9	+0.7	11.9	30	1	+0.1	5.7	4.8	0	1	0	0	0	0	1	0	0	0	0	0	
Keonjhar .	27.5	..	29.7	16	13.4	..	9.3	20	2.5	3.5	..	3.5	30	1	..	6.4	4.6	..	1	0	0	1	0	0	0	0	0	0	0	
Sambalpur .	29.2	+1.5	31.3	13	13.3	+0.5	8.3	1	6.9	6.9	-4.0	6.9	30	1	+0.1	1.0	0.3	-3.1	1	0	0	1	1	0	0	0	0	0	0	
Jharsuguda .	29.3	..	32.2	16	12.6	..	8.6	1	9.1	15.2	..	9.1	30	2	..	7.1	5.5	..	2	0	0	1	1	0	0	0	0	0	0	
Chota Nagpur																														
Jamshedpur .	28.2	+1.3	30.7	28	13.3	+2.6	9.2	20	8.4	21.7	+12.6	9.7	29	3	+2.1	4.2	2.6	+0.2	4	0	0	2	1	0	0	0	0	0	0	
Jamshedpur (P.B.O.)	28.2	..	31.8	28	13.2	..	9.3	1	12.4	25.4	..	11.2	30	2	..	5.1	2.8	..	4	0	0	2	0	0	0	0	0	0	0	
Chaibasa .	28.9	+2.7	31.4	28	13.3	+2.0	8.9	1	11.7	24.2	+7.9	12.5	29	2	+0.6	2.5	1.5	-0.6	2	0	0	0	0	0	0	0	0	0		
(a)	26.8	+3.7	..	..	10.1	-0.5	..	..	9.7	16.7	-6.7	11.2	30	2	+0.2	..	..	3	0	0	0	0	0	0	0	0	0	0	
Ranchi (G.W.O.)	24.9	..	27.7	27	11.7	..	7.8	19	6.3	13.9	..	7.9	30	2	..	9.6	7.5	..	4	0	0	0	0	0	0	0	0	0	0	
(l)	26.4	+2.0	31.6	28	10.0	+1.4	5.1	19,20	1.3	14.5	-3.9	13.2	29	1	-0.9	5.0	2.9	0	2	0	0	0	0	0	0	0	0	0		
Daltonganj .	25.7	+3.0	30.3	28	11.0	+0.8	6.6	19	14.5	18.6	-4.0	14.5	30	2	+0.1	8.5	6.3	-2.1	3	0	0	1	0	0	0	0	0	0		
Hazaribagh .	25.7	+3.0	30.4	28	11.0	+0.8	6.6	19	14.5	18.6	-4.0	14.5	30	2	..	5.3	5.1	..	2	0	0	0	12	0	0	0	0	0		
Dhanbad .	27.3	..	31.1	27	14.2	..	11.2	31	6.1	11.5	..	7.4	30	2	..	5.3	5.1	..	2	0	0	0	0	0	0	0	0	0		
Bihar																														
Purnea .	26.3	+2.6	28.3	27	9.2	+0.5	5.3	19	0	3.8	-6.6	3.8	29	1	+0.2	6.0	3.0	+0.7	1	0	0	0	1	0	0	0	0	0	0	
Forbesganj .	26.7	..	28.4	16	10.4	..	6.9	19	9.1	24.3	..	14.2	29	2	..	6.9	3.9	..	2	0	0	0	22	0	0	0	0	0	0	
Darbhanga .	25.8	+2.3	27.8	27	11.7	+1.8	8.4	19	0	26.4	+15.2	26.4	29	1	0	0.7	0.3	-2.0	1	0	0	0	0	0	0	0	0	0	0	
Motihari																														
Muzaffarpur	0	-13.2	0	..	0	-1.1
Chapra	23.4	+8.9	23.4	29	1	-0.3	1
Arrah	17.8	+0.8	17.8	29	1	-0.3	1
Patna .	25.5	+2.7	28.7	27	12.2	+1.6	8.3	19	0	22.9	+7.9	22.9	29	1	-0.3	5.3	5.0	+1.5	1	0	0	1	2	0	0	0	0	0	0	
Patna (Aerodrome)	25.1	..	28.8	27	10.4	..	4.8	19	0	26.9	..	26.9	29	1	..	6.3	3.1	..	1	0	0	1	5	0	0	0	0	0	0	
Dehri .	25.8	..	30.6	28	11.8	..	7.6	19	9	22.9	-5.6	22.9	29	1	-0.5	6.0	3.7	..	1	0	0	1	0	0	0	0	0	0		
Gaya .	25.7	+2.2	30.1	16	10.4	+0.8	5.6	19	0	17.8	-0.5	17.8	29	1	-0.3	4.5	2.5	-2.6	1	0	0	0	0	0	0	0	0	0	0	
Jamui .	26.6	..	30.7	28	11.0	..	6.4	20	0	2.5	..	2.5	29	1	..	5.9	3.1	..	1	0	0	0	0	0	0	0	0	0	0	
Dumka .	28.1	+3.7	31.2	27	11.1	-0.6	8.2	19,20	7.6	7.6	-9.4	7.6	30	1	-0.3	1.7	1.6	-0.5	1	0	0	0	0	0	0	0	0	0	0	
Bhagalpur .	26.0	..	29.4	27	12.8	..	9.9	19	0	2.1	..	2.1	29	0	..	6.5	4.4	..	1	0	0	0	0	0	0	0	0	0	0	
Sabour .	26.1	+2.8	29.0	27	9.5	+2.3	4.9	19	0	2.1	-11.6	1.8	29	0	-1.1	7.7	4.6	-0.4	2	0	0	0	1	0	0	1	0	0	0	
Uttar Pradesh (East)																														
Gonda .	24.0	+0.8	25.8	25	8.6	+0.9	4.4	19	0	22.8	+9.9	16.5	29	2	+0.8	3.6	2.6	-1.7	2	0	0	0	0	0	0	0	0	0	0	0
Nautanwa .	25.3	..	28.0	27	10.2	..	7.3	7	10.9	31.8	..	12.7	29	3	..	3.3	1.9	..	3	0										

6 TABLE II.—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—JANUARY, 1958 (PAUSA II—MAGHA II, 1879 SAKA)

17.1. Results - Assisted

***Data not reliable**

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—JANUARY, 1958 (PAUSA II—MAGHA II, 1879 SAKA)

Division and station	Air temperature in °C								Rainfall in millimetres				No. of rainy days (2.5mm or more)		Wind speed, km. per hour		Weather phenomena—No. of days with													
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.3mm or more)	Snow or sleet	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
Rajasthan (East) Contd.																														
Chambal . .	27.1	..	30.0	26	8.8	..	4.5	31	5.1	11.4	..	8.9	4	2	..	6.1	3.7	..	2	0	0	1	0	0	0	0	0	0	0	
Jhalawar . .	27.1	+1.6	30.1	25	10.9	+2.1	6.3	19	6.9	11.5	+7.4	14.5	4	1	+0.3	5.3	3.5	+0.3	2	0	0	1	0	0	0	0	0	0	0	
Udaipur . .	26.2	+1.9	30.6	9	8.9	+0.3	5.5	18,31	3.4	22.2	+17.1	12.7	3	2	+1.6	3.0	1.5	..	2	0	0	2	0	0	0	0	0	0	0	
Eripura (Jawai Dam) . .	27.1	..	30.8	25	13.1	..	8.9	27	0	0	..	0	..	0	..	4.6	3.8	..	0	0	0	0	0	0	0	0	0	0	0	
Madhya Pradesh, (West) Gwalior (P.B.O.)	25.2	+2.3	28.9	23	9.7	+1.9	5.6	24	0	0	-18.8	0	..	0	-1.5	8.0	4.9	..	0	0	0	0	1	0	0	0	0	0	0	
Sheopur Kalan . .	26.6	..	29.7	3	8.6	..	4.1	20	1.3	1.3	..	1.3	4	0	..	6.7	5.0	..	1	0	0	0	2	0	0	0	0	0	0	
Guna . .	26.3	+1.2	29.3	26	9.3	+1.7	4.7	31	0	7.1	+0.5	7.1	4	1	-0.2	8.6	4.9	..	1	0	0	0	2	0	0	0	0	0	0	
Rajgarh . .	27.6	..	31.2	26	9.9	..	5.2	18,31	9.9	9.9	..	7.9	3	1	..	7.8	5.2	..	2	0	0	0	0	0	0	0	0	0	0	
Neemuch . .	26.6	+1.5	29.4	9	11.5	+2.3	7.3	31	2.0	17.7	+12.6	17.7	4	1	+0.6	5.9	4.5	-1.9	1	0	0	2	0	0	0	0	0	0	0	
Ratlam . .	28.0	..	31.2	9	12.9	..	8.5	22	3.1	5.1	..	2.3	5	0	..	5.2	3.7	..	3	0	0	1	0	0	0	0	0	0	0	
Alirajpur . .	29.3	..	32.2	9,25	11.8	..	7.6	19	0.8	1.1	..	0.8	5	0	..	6.8	3.7	..	2	0	0	0	0	0	0	0	0	0	0	
Indore . .	27.4	+1.0	30.1	10	11.1	+1.4	7.1	20	14.8	19.7	+13.6	14.3	5	2	+1.5	10.2	8.3	..	4	0	1	1	0	0	0	0	0	0	0	
Bhopal (Bairagarh)	27.3	+1.0	29.8	11	11.9	+2.0	6.9	31	1.3	1.3	-4.8	1.3	5	0	-0.8	8.1	6.7	-1.5	1	0	0	1	1	0	0	0	0	0	0	
Khandwa . .	30.6	+1.3	32.8	10	12.9	+1.5	7.4	19	0	5.1	-2.8	5.1	2	1	+0.4	6.1	3.8	-5.5	1	0	0	0	0	0	0	0	0	0	0	
Hoshangabad . .	28.5	+1.6	30.8	26	13.5	+1.2	8.4	19	0	0	-10.2	0	..	0	-0.9	1.9	1.2	-2.2	0	0	0	0	0	0	0	0	0	0	0	
Betul . .	27.8	..	30.7	11	11.6	..	5.0	18	0	0	..	0	..	0	..	6.2	4.2	..	0	0	0	0	0	0	0	0	0	0	0	
Chhindwara . .	26.9	..	29.4	24	10.8	..	4.7	19	0	12.5	..	12.5	29	1	..	6.3	4.3	..	1	0	0	0	0	0	0	0	0	0	0	
Seoni . .	27.2	+1.2	29.7	8	12.6	+1.5	8.4	2	1.0	12.0	-2.0	10.2	29	1	-0.2	5.4	2.9	-0.8	5	0	0	1	1	0	0	0	0	0	0	
Sagar . .	26.6	+1.4	30.2	10	13.3	+1.9	8.9	18	0	0.8	-13.7	0.8	4	0	-1.3	7.2	6.6	..	1	0	0	1	1	0	0	0	0	0		
Nowrang . .	26.4	+2.6	30.6	26	8.6	+0.5	4.5	18,31	0	1.3	-13.7	1.3	4	0	-1.5	4.4	2.1	+0.3	1	0	0	0	1	0	0	0	0	0		
Madhya Pradesh, (East) Sutna . .	26.8	+2.9	31.1	26,27	10.2	+1.3	5.8	20	4.8	6.6	-14.5	6.6	22	1	-0.8	5.0	3.1	-0.3	1	0	0	2	2	0	0	0	0	0	0	
Umari . .	27.0	+2.0	31.3	20	10.0	+1.9	5.0	19	5.9	21.1	-4.6	20.3	29	1	-1.1	5.0	2.9	-0.5	3	0	0	1	0	0	0	0	0	0	0	
Jabalpur . .	27.9	+2.8	31.2	14	11.1	+2.3	6.6	18	11.2	20.6	-0.2	17.8	29	1	+0.7	4.9	2.7	+0.4	4	0	1	1	2	0	0	0	0	0	0	
Mandla . .	27.2	..	30.2	26	8.8	..	3.3	19	1.3	5.6	..	3.8	29	1	..	4.5	2.0	..	3	0	0	1	1	0	0	0	0	0	0	
Pendra . .	26.0	+2.7	30.1	13	12.4	+2.1	6.9	19	1.5	4.0	-17.6	2.5	29	1	-0.7	9.3	5.9	..	2	0	0	1	0	0	0	0	0	0	0	
Ambikapur . .	25.7	..	29.3	27	9.5	..	4.1	19	0	9.9	..	7.6	29	1	..	7.7	5.7	..	3	0	0	1	0	0	0	0	0	0	0	
Champa . .	29.0	..	31.3	13	14.8	..	10.6	19,20	0	6.9	..	6.9	29	1	..	4.6	4.4	..	1	0	0	2	0	0	0	0	0	0	0	
Raigarh . .	30.0	..	31.8	14	14.1	..	9.9	19,21	6.6	12.2	..	6.6	30	2	..	3.8	3.2	..	2	0	0	0	0	0	0	0	0	0	0	
Raipur . .	29.2	+1.6	31.1	16,28	14.9	+1.7	11.1	19,20	0	0	-9.4	0	..	0	-0.8	6.1	4.2	-0.3	0	0	0	0	0	0	0	0	0	0	0	
Kanker . .	28.9	+0.8	31.1	29	12.8	+1.5	7.2	19	0	0.5	-4.6	0.5	29	0	-0.5	1.2	1.1	-1.8	1	0	0	0	0	0	0	0	0	0	0	
Jagdalpur (P.B.O.)	29.5	+1.6	31.3	28,29	12.2	+0.7	8.8	1,23	0	1.0	-8.9	1.0	30	0	-0.7	4.4	2.5	..	1	0	0	1	2	0	0	0	1	0		
Gujarat Deesa . .	29.4	..	31.8	3,9,10	12.2	..	9.5	21	0	4.3	..	4.3	3	1	..	8.5	6.6	..	1	0	0	1	0	0	0	0	0	0	0	
Idar . .	25.1	..	31.9	25	15.2	..	10.1	10,15	0	4.1	..	4.1	4	1	..	8.5	6.6	..	1	0	0	1	0	0	0	0	0	0	0	
Ahmedabad . .	30.1	+1.0	32.7	25	13.8	+2.2	10.6	21	0	0	-0.5	0	..	0	-0.1	9.6	6.2	+2.2	0	0	0	0	0	0	0	0	0	0	0	
Dohad . .	28.8	-0.1	32.2	9,10	13.7	+2.6	10.7	20	0	1.3	-1.0	1.3	4	0	-0.2	8.6	8.3	+4.3	1	0	0	2	0	0	0	0	0	0	0	
Baroda . .	31.6	+1.4	35.0	25	12.3	+2.5	8.9	20	0	0	-1.5	0	..	0	-0.1	4.0	0.3	-1.3	0	0	0	1	0	0	0	0	0	0	0	
Baroda (Aerodrome)	30.9	..	34.3	25	13.8	..	10.0	20	0	0	..	0	..	0	..	8.1	5.9	..	0	0	0	1	0	0	0	0	0	0	0	0
Broach . .	33.2	..	36.7	9	14.8	..	11.2	22	0	1.0	..	0.5	1.2	0	..	5.9	4.7	..	2	0	0	0	2	0	0	0	0	0	0	
Surat . .	32.9	+2.5	37.7	9	16.7	+2.4	13.7	22	0	0	-2.8	0	..	0	-0.2	9.0	7.4	+2.9	0	0	0	0	0	0	0	0	0	0	0	
Saurashtra & Kutch Bhuj (P.B.O.)	28.9	+2.6	32.5	10	13.4																									

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—JANUARY, 1958 (PAUSA II—MAGHA II, 1879 SAKA)

Division and station	Air temperature in °C								Rainfall in millimetres						No. of rainy days (2.5mm, or more)		Wind speed, km. per hour		Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.3mm, or more)	Snow or sleet	Hail	Thunder head	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall		
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29		
1																														
Saurashtra & Kutch—contd. Keshod . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	15.8	12.5	..	..	0	0	0	0	0	0	0	0	0	0	0
Veraval . .	29.7	..	33.7	13	16.5	..	12.8	17	0	0.8	-0.2	0.8	1	0	-0.1	15.6	13.3	..	1	0	0	0	0	0	0	0	0	0	0	
Konkan Dahanu . .	28.8	+1.2	32.9	25	17.7	+1.0	14.9	21	0	4.3	+2.0	2.0	2	0	-0.2	17.1	11.5	-0.7	3	0	0	0	0	0	0	0	0	0	0	
Bombay (Colaba) . .	30.9	+2.5	34.2	6	20.5	+1.2	17.9	30	0	0.8	-2.8	0.8	1	0	-0.2	10.2	8.5	-2.1	1	0	0	0	0	0	0	0	0	0	0	
Bombay (Santa Cruz Aerodrome). Alibag . .	31.8	+2.8	34.8	4	17.6	+2.3	12.8	30	0	0.8	-2.8	0.8	1	0	-0.2	12.2	7.8	..	1	0	0	0	0	0	0	0	0	0	0	
Harnai . .	29.0	+1.3	33.4	19	23.4	+2.1	20.4	29	0	0	-2.5	0	..	0	-0.6	15.0	13.4	+1.2	0	0	0	0	0	0	0	0	0	0	0	
Ratnagiri . .	31.5	..	34.1	5,24	20.0	..	16.8	20	0	0	-2.0	0	..	0	-0.1	..	..	0	0	0	0	0	0	0	0	0	0	0	0
Devgad . .	31.3	+1.3	34.2	19	21.8	+0.7	19.8	20,21, 30	0	0	-4.8	0	..	0	-0.4	14.9	11.8	-5.3	0	0	0	0	0	0	0	0	0	0	0	0
Vengurla . .	32.2	..	35.4	19	19.0	..	16.4	20	2.8	0.3	..	0.3	1	0	..	10.5	6.2	..	1	0	0	0	0	0	0	0	0	0	0	
Maharashtra Nandurbar . .	31.8	..	35.9	6	17.4	..	12.7	21	0	1.2	..	1.3	2	0	..	7.1	4.9	..	1	0	0	0	0	0	0	0	0	0	0	
Jalgaon . .	31.6	..	33.9	8	13.4	..	7.7	22	0	0.2	-8.3	0.3	2	0	-0.6	11.3	9.2	..	1	0	0	0	0	0	0	0	0	0	0	
Malegaon . .	30.8	+0.7	33.4	11	12.3	+1.0	8.0	20	0	1.0	-3.3	1.0	2	0	-0.3	6.8	5.5	-0.3	1	0	0	0	0	0	0	0	0	0	0	
Deolali . .	29.6	..	31.7	7	11.7	..	7.2	30	3.1	3.6	..	1.8	5	0	..	8.6	5.2	..	3	0	0	2	0	0	0	0	0	0	0	
Aurangabad . .	30.2	+0.9	32.3	11	15.1	+1.4	10.0	22	0	0	-7.4	0	..	0	-0.5	7.9	7.1	-0.3	0	0	0	0	0	0	0	0	0	0	0	
Aurangabad (Chikalthana Aerodrome) Khandala . .	29.5	..	31.4	11	10.7	..	4.4	20	0	0	..	0	..	0	..	8.3	5.3	..	0	0	0	0	0	0	0	0	0	0	0	
Ahmednagar . .	30.2	+1.0	..	..	13.7	-1.9	7.6	20	0	2.0	-3.3	2.0	5	0	-0.4	7.4	5.5	-0.5	1	0	0	0	0	0	0	0	0	0	0
Parbhani . .	30.4	..	32.2	11	13.8	..	8.3	20	0	0	-9.1	0	..	0	-0.7	7.5	5.0	..	0	0	0	0	0	0	0	0	0	0	0	
Poona . .	31.0	+0.7	33.2	27	13.2	+1.5	8.2	20	0	0.5	-1.0	0.5	1	0	-0.2	4.0	2.1	-3.9	1	0	0	1	0	0	0	0	0	0	..	
Poona (Lohagaon Aerodrome) Baramati . .	30.1	..	31.7	27	14.1	..	9.7	20	0	0	..	0	..	0	..	8.1	6.2	..	0	0	0	0	0	0	0	0	0	0	0	
Jeur . .	30.7	..	32.8	31	13.8	..	8.1	20	0	0	..	0	..	0	..	9.3	5.7	..	0	0	0	0	0	0	0	0	0	0	0	
Sholapur . .	31.0	+0.2	33.4	31	16.6	+1.4	11.8	20	0	0	-3.8	0	..	0	-0.3	11.2	8.7	-0.5	0	0	0	0	0	0	0	0	0	0	0	
Miraj . .	30.8	+0.7	32.9	31	15.2	+1.0	10.7	20	0	0	-0.3	0	..	0	-0.1	10.9	8.0	+0.9	0	0	0	0	0	0	0	0	0	0	0	
Kolhapur . .	31.0	+0.6	32.7	31	15.2	+0.5	12.1	20	0	0	-2.5	0	..	0	0.4	11.7	8.0	-0.7	0	0	0	0	0	0	0	0	0	0	0	
Vidarbha Buldhana . .	27.5	..	29.7	8	16.4	..	13.2	18,20	0	0.3	..	0.3	2	0	..	8.1	7.6	..	1	0	0	0	0	0	0	0	0	0	0	
Akola . .	31.5	+1.4	36.2	12	14.4	+1.7	8.1	20	0	0	-8.9	0	..	0	-0.7	(a) 8.4	4.5	+0.2	0	0	0	0	0	0	0	0	0	0	0	
Amravati . .	30.3	+1.0	32.7	11	16.1	+1.0	12.7	21	0	0.8	-8.6	0.5	2	0	-0.8	8.4	7.0	+1.2	2	0	0	0	0	0	0	0	0	0	0	
Yeotmal . .	29.8	..	32.1	12	16.6	..	11.1	21	0	2.3	..	2.3	28	0	..	9.7	8.2	..	1	0	0	0	0	0	0	0	0	0	0	
Nagpur . .	29.9	+1.3	32.7	10	13.2	+0.4	9.0	21	4.3	6.8	-2.6	6.8	29	1	-0.2	9.1	7.1	..	1	0	0	1	0	0	0	0	0	0	0	
Gondia . .	28.7	..	30.6	14,18	14.1	..	9.2	20	0	36.8	..	36.8	29	1	..	4.2	2.3	..	1	0	1	1	0	0	0	0	0	0	0	
Brahmapuri . .	29.9	..	31.8	17	15.1	..	7.5	20	0	10.2	..	10.2	29	1	..	6.2	3.5	..	1	0	0	0	0	0	0	0	0	0	0	
Chanda . .	30.7	+1.1	32.7	16	13.7	-0.7	7.2	19	0	7.9	0	7.9	29	1	+0.5	6.5	4.2	+1.6	1	0	0	1	1	0	0	0	0	0	0	
Sironcha . .	31.2	..	33.0	29	15.5	..	10.9	19,22	0	4.3	..	4.3	29	1	..	4.8	2.9	..	1	0	0	1	0	0	0	0	0	0	0	
Coastal Andhra Pradesh Nellore . .	30.4	+0.8	33.8	30	20.1	+0.4	17.7	17	0	0.5	-32.8	0.5	31	0	-1.4	8.7	5.2	+0.7	1	0	0	0	0	0	0	0	0	0	0	
Ongole . .	27.0	..	29.2	30	19.8	..	17.2	23	0	0	..	0	..	0	..	7.7	4.3	..	0	0	0	0	0	0	0	0	0	0	0	
Rentachintala . .	32.4	+1.7	35.0	29,30	18.3	+1.8	16.2	16	0	0	-0.3	0	..	0	..	5.7	4.1	-1.2	0	0	0	0	0	0	0	0	0	0	0	
Gannavaram . .	30.5	..	32.6	29	18.9	..	15.8	16	0	0	..	0	..	0	..	12.7	9.1	..	0	0	0	0	0	0	0	0	0	0	0	
Masulipatam . .	28.7	+0.4	31.6	19	19.9	+1.0	18.3	25	0	0	-5.1	0	..	0	..	-0.3	12.4	7.9	+1.6	0	0	0	0	0	0	0	0	0	0	
Nidadavolu . .	30.7	..	33.2	19	18.3	..	16.7	25	0	0	..	0	..	0	..	8.8	6.2	..	0	0	0	0	0	0	0	0	0	0	0	
Kakinada . .	28.9	+1.6	30.7	19	19.1	0	17.3	3	0	0	-7.1	0	..	0	..	-0.5	12.5	9.4	-0.5	0	0	0	0	0	0	0	0	0	0	
Visakhapatnam . .	30.1	+0.8	33.1	18	18.2	+0.3	15.2	1	0.8	0.8	-10.1	0.8	31	0</																

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—JANUARY, 1958 (PAUSA 11—MAGHA 11, 1879 SAKA)

9

^tData given as addenda in December, 1959 issue.

卷之三

(a) Mean of 30 day

(R) Register not received.

Division and station.	Air temperature in °C.								Rainfall in millimetres						No. of rainy days (2.5mm or more).		Wind speed, km. per hour.		Weather phenomena—No. of days with.											
	Mean maximum.	Departure from normal.	Highest.	Date.	Mean minimum.	Departure from normal.	Lowest.	Date.	Total fall during 0830-1730 hours.	Total fall in 24 hours.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month.	Departure from normal.	Mean between 0830-1730 hours.	Mean 24 hours.	Departure from normal.	Precipitation (0.3mm. or more)	Snow or sleet.	Hail.	Thunder heard.	Fog.	Dust-storm.	Ground frost.	Gale.	Squall.			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29		
Hill Stations excluding Kangra—(Contd.)																														
Darjiling (Raj Bhawan).	10.8	+1.6	13.5	8	3.8	+0.9	1.2	30	4.3	25.4	+11.9	17.8	29	4	+2.8	1.5	0.7	-0.4	4	0	0	0	16	2	0	0	0	0		
Kalimpong	15.7	+0.5	20.3	3	9.4	+1.5	5.6	29	0	20.3	+9.9	15.2	29	2	+1.1	6.3	4.7	-6.1	2	0	0	0	0	0	0	0	0	0		
Katmandu	18.3	+0.2	20.8	16	3.9	+1.6	0.2	18	4.6	14.5	+4.8	7.6	23	2	+1.2	3.0	1.5	-0.4	3	0	0	0	15	0	0	0	0	0		
Mukteswar (Kumag).	11.5	+1.6	16.1	4	3.1	+1.2	-1.3	30	26.4	37.6	+17.3	17.7	29	5	+1.4	9.8	10.0	+1.0	7	4	0	2	4	0	30	0	0	0		
Nainital	12.1	..	18.4	2	3.3	..	0.6	30	21.6	33.0	..	13.7	29	3	..	7.5	5.9	..	5	2	0	0	2	0	0	0	0	0		
Tapoban	11.9	..	17.2	19	..	..	..	..	..	26.7	..	10.7	30	5	..	..	..	..	7	..	..	..	..	..	..	..	..	..
Badrinath	..	..	..	..	..	..	..	..	Closed during winter months																			
Lokpal	..	-6.6	..	-5.6	15	-10.3	..	-12.2	5	..	143.5	..	30.5	29	12	12	6	
Jamuna Chetty	..	..	..	..	..	..	..	..	..	88.8	..	13.2	17	11	..	..	..	..	11	..	..	..	..	..	..	..	..	..
Mussoorce	11.7	+2.0	16.3	4	4.2	+1.5	0	30	30.8	72.7	+3.9	30.2	28	5	0	7.4	7.0	-0.1	8	2	3	3	1	0	18	0	0	0		
Kharsali	..	..	..	..	..	..	..	..	..	168.4	..	33.3	31	6	..	..	..	..	2	..	..	..	..	..	..	..	..	..
Rana	..	..	..	..	..	..	..	..	..	93.0	..	14.0	16	11	..	..	..	..	11	..	..	..	..	..	..	..	..	..
Simla	10.1	+1.5	14.4	7	3.7	+1.8	-1.1	16	19.9	42.8	+23.5	15.0	15	5	+0.2	4.4	3.8	-2.2	10	7	0	0	0	2	0	0	0	0		
Dharampore	..	..	..	..	..	..	..	..	..	35.0	-35.4	10.0	16	5	+1.0	..	..	..	5	..	..	..	..	..	..	..	..	..
Kyelang	..	..	..	..	..	..	..	..	..	70.8	+7.1	13.2	1	8	+2.3	..	..	..	12	..	..	..	..	..	..	..	..	..
Gondla	..	..	..	..	..	..	..	..	..	75.1	..	14.0	26	9	..	..	..	..	12	..	..	..	..	..	..	..	..	..
Kothi	..	..	..	..	..	..	..	..	..	139.8	..	26.2	14	9	..	..	..	..	10	..	..	..	..	..	..	..	..	..
Koksar	..	..	..	..	..	..	..	..	..	185.4	..	36.1	30	11	..	..	..	..	14	..	..	..	..	..	..	..	..	..
Dalhousie	12.2	..	18.4	9	3.9	..	-1.9	23	50.5	101.7	-79.2	31.7	23	9	+1.6	3.3	4.1	..	12	5	0	0	0	0	0	0	0	0		
Dharamshala	16.0	..	19.3	8	7.8	..	4.5	17.18,	20.5	83.8	..	18.8	27	6	..	6.8	5.2	..	10	0	0	3	0	0	0	0	0	0		
Abu	20.3	+1.5	24.4	9	11.3	+0.9	8.8	30.31	0	3.6	-3.0	3.6	3	1	+0.4	7.4	5.3	-0.3	1	0	0	0	0	0	0	0	0	0		
Pachmarhi	23.9	+1.7	26.8	11	8.8	+0.1	3.2	19	0	3.6	-12.7	3.6	29	1	-0.3	5.7	3.3	-0.6	1	0	0	1	0	0	0	0	0	0		
Mahabaleshwar	25.1	+1.5	26.8	5.6,7	13.7	-0.2	8.2	29	0.5	0.5	-3.1	0.5	4	0	-0.2	8.7	9.6	+0.1	1	0	0	0	0	0	0	0	0	0		
Nandi Hills	22.0	..	23.9	30.31	0	..	0	..	0	0	0	0	0	0	0	0	0	0	0	0	
Mercara	25.1	0	27.9	31	14.5	+0.5	10.7	6	0	3.3	-0.8	2.0	3	0	-0.3	9.2	9.3	+2.9	2	0	0	0	0	0	0	0	0	0		
Kodaikanal	17.3	+0.5	20.6	14	8.0	-0.1	5.8	8	8.3	22.5	-58.5	13.9	4	2	-2.0	12.3	13.5	-0.3	5	0	0	0	16	0	0	0	0	0		
Ootacamund	20.1	+1.3	22.8	6.13	4.9	-1.2	1.1	10.19	1.5	5.3	-27.5	2.3	27	0	-1.8	4.1	2.5	-2.5	4	0	0	0	0	0	14	0	0	0		
Coonoor	19.1	+0.1	23.4	15	9.3	+1.0	5.0	13	..	79.5	+17.0	21.1	3	5	+2.3	..	5.0	-0.3	9	0	0	0	0	0	0	0	0	0		
Sikkim	Thangu																													
Chungthang	..	..	..	..	..	..	..	..	..	68.5	..	8.9	22	10	..	..	..	..	23	..	..	..	..	..	..	..	..	..
Lachen	..	16.5	..	18.9	30	-4.5	..	-5.6	30	..	145.8	..	20.3	29	17	18	
Tibet	Yatung (Chumbi)																													
Lhasa	7.8	..	15.6	4	-14.5	..	-16.2	5 days	..	0	..	0	..	0	..	4.4	..	0	0	0	0	0	0	0	0	0	0	0	0	0
Ceylon	Colombo																													
Trincomalee	27.6	-0.2	30.0	24	25.3	+1.6	23.2	16	64.8	100.4	-72.8	73.4	31	5	-3.1	..	..	..	5	0	0	0	0	0	0	0	0	0
Batticaloa	28.1	..	28.9	21.25,	23.9	..	21.6	23	59.6	183.3	..	54.9	27	10	..	..	..	..	15	0	0	0	0	0	0	0	0	0
Hambantota	29.0	-0.3	31.1	23	23.7	+1.3	21.9	18	13.7	24.1	-76.2	6.3	28	4	-2.0	..	..	..	4	0	0	0	0	0	0	0	0	0
Mannar	29.0	..	31.1	2	24.5	..	22.9	16	25.9	26.9	..	15.2	30	2	..	..	..	..	2	0	0	0	0	0	0	0	0	0
Hydrometeorological Observatories—Damodar Catchment	Bokaro																													
Hazaribagh	24.4	..	28.6	27	10.6	..	5.8	19	10.2	16.6	..	12.0	30	2	..	6.1	3.4	..	3	0	0	0	0	0	0	0	0	0		
Tilaiya	25.1	..	30.4	28	11.1	..	6.3	19	0	3.1	..	3.1	29	1	..	9.1	5.3	..	1	0	0	1	0	0	0	0	0	0		
Ramgarh	28.5	..	33.0	27	8.7	..	3.6	19	8.6	12.7	..	10.4	30	1	..	4.3	2.1	..	3	0	0	1	0	0	0	0	0	0		
Panchet Hills	28.2	..	32.2	28	12.5	..	8.4	20	7.1	13.2	..	7.1	30	2	..	7.2	4.9	..	2	0	0	1	0	0	0	0	0	0		
Durgapur	28.0	..	31.7	28	13.4	..	10.0	19	..	20.5	..	10.9	30	2	..	..	..	..	3	0	0	0	0	0	0	0	0	0
Asansol	..	..	..	..	..	..	..	..	..	15.5	..	8.6	30	2	..	..	..	..	2	..	..	..	..	..	..	..	..	..
Dhanwar	..	..	..	..	..	..	..	..	..	0	..	0	..	0														

(a) Mean of 26 days. (g) Mean of 23 days.

(f) Mean of 25 days.

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—JANUARY, 1958 (PAUSA 11—MAGHA 11, 1879 SAKA) 11

Division and station	Air temperature in °C.									Rainfall in millimetres						No. of rainy days (2.5 mm. or more)		Wind speed km. per hour			Weather phenomena—No. of days with								
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Lake small	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
Hydrometeorological Observatories (Contd.)																													
Khijrawan . . .	29.3	..	32.2	30	11.5	..	6.4	19	0	3.8	..	3.8	29	1	..	..	..	..	1	0	0	0	0	0	0	0	0	0
Sonepur . . .	30.5	..	31.9	18	12.3	..	9.9	1	..	0	..	0	..	0	..	..	2.3	..	0	..	..	..	..	..	..	..	..	..
Ginabahar . . .	29.5	..	31.7	3,16	10.1	..	6.1	23	..	12.5	..	10.2	29	1	..	..	..	..	3	..	..	..	..	..	..	..	..	..
Bhimkund . . .	28.5	..	31.3	16	12.3	..	7.8	1	4.1	6.1	..	6.1	30	1	..	4.7	2.6	..	1	0	0	2	1	0	0	0	0	0	
Narbada Catchment																													
Punasa *	28.9	..	32.3	24	10.7	..	5.0	19	0	0	..	0	..	0	..	5.2	3.1	..	0	0	0	0	0	0	0	0	0	0	
Bagra Tawa . . .	31.1	..	33.7	25	13.5	..	8.2	18	..	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0
Sabarmati Catchment																													
Jhadol . . .	26.2	..	29.4	3	..	..	..	..	..	5.3	..	5.3	3	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..
Sainwara (Surajgarh) . . .	..	..	..	..	..	..	..	..	..	0	..	0	..	0	..	..	..	..	0	..	..	..	..	..	..	..	..	..
Bikrani . . .	..	..	..	..	..	..	..	..	..	10.9	..	8.6	3	1	..	..	..	..	2	..	..	..	..	..	..	..	..	..
Tarpal . . .	..	..	..	..	..	..	..	..	..	0	..	0	..	0	..	..	..	..	0	..	..	..	..	..	..	..	..	..
Kotra Cantonment . . .	..	..	..	..	..	..	..	..	..	9.1	..	6.3	3	2	..	..	..	..	2	..	..	..	..	..	..	..	..	..
Dharoi . . .	29.5	..	32.2	3,25	14.2	..	9.2	14	6.9	6.9	..	6.9	4	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..
Ganga Catchment																													
Mukhini . . .	13.2	..	16.7	7	4.6	..	0.7	30	20.0	35.2	..	11.4	29	5	..	..	..	..	10	..	..	..	..	..	..	..	..	..
Tehri . . .	19.1	..	22.3	5	..	..	..	..	11.9	22.1	..	8.9	2	4	..	..	..	..	5	0	0	3	6	0	0	0	0	0
Gandak Catchment	(a)																												
Gorkha . . .	18.3	..	20.9	27	10.1	..	6.2	30	7.1	8.6	..	6.3	28	1	..	..	..	..	3	..	..	..	..	..	..	..	..	..
Pokhara . . .	20.0	..	22.7	27	9.7	..	5.2	30	17.0	17.5	..	12.7	30	2	..	..	..	..	3	..	..	..	..	..	..	..	..	..
Nawakot . . .	20.8	..	23.2	16	10.3	..	7.3	31	4.6	10.9	..	6.3	28	2	..	..	..	..	2	..	..	..	..	..	..	..	..	..
Jomosom . . .	12.3	..	19.9	1	0.1	..	-7.6	30	17.8	17.8	..	17.8	30	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..
Timure . . .	15.6	..	20.1	3	4.0	..	1.3	31	12.7	21.1	..	13.7	28	2	..	..	..	..	2	..	..	..	..	..	..	..	..	..
Gogra Catchment (Trans Himalayan Region)																													
Daiilekh . . .	15.9	..	21.1	3	..	..	..	..	7.4	50.5	..	36.8	29	3	..	..	..	..	3	..	..	..	..	..	..	..	..	..
Gogra Catchment																													
Dandeldhura . . .	..	..	..	..	..	..	..	..	..	97.3	..	48.3	29	9	..	..	..	..	11	..	..	..	..	..	..	..	..	..
Munsiyari . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sallyana *
Butwal . . .	24.2	..	26.1	17	11.2	..	4.6	18	2.8	19.0	..	10.2	30	3	..	..	..	..	3	..	..	..	..	..	..	..	..	..
Igmati Catchment																													
Catmandu . . .	18.5	..	21.1	3	3.9	..	-0.1	18	5.6	14.7	..	8.1	28	3	..	3.0	1.6	..	3	0	0	1	0	0	2	0	0	0	
Kosi Catchment																													
Chautara . . .	18.1	..	21.4	27	7.9	..	4.5	30	1.8	24.2	..	9.9	28	3	..	..	..	..	5	..	..	..	..	..	..	..	..	..
Dhaldunga . . .	14.3	..	17.0	21	5.4	..	1.8	30	1.8	18.3	..	6.1	10	3	..	3.0	2.5	..	4	0	0	1	1	0	0	0	0	0	
Arahakhetra . . .	23.9	..	24.8	23,24	12.0	..	10.1	18	3.1	28.5	..	19.1	30	2	..	6.2	5.0	..	3	0	0	1	0	0	0	0	0	0	
Langbung . . .	18.7	..	21.7	29	9.4	..	5.9	1	..	37.8	..	27.4	29	3	..	..	..	..	4	..	..	..	..	..	..	..	..	..
Taplejung . . .	14.4	..	16.9	7	5.8	..	2.7	29,31	0.9	46.3	..	30.0	29	3	..	..	..	..	6	0	0	0	0	0	0	0	0	0
Taplethok . . .	19.7	..	22.0	14	6.6	..	5.1	18,19	..	64.3	..	12.7	29,30	6	..	..	..	..	7	..	..	..	..	..	..	..	..	..
Yalungchung Gola (R)	14.6	..	17.3	20	7.5	..	4.7	30	28.4	34.1	..	27.2	30	3	..	..	..	..	4	..	..	..	..	..	..	..	..	..
Hainpur . . .	18.2	..	20.4	20	9.0	..	6.1	29,30	0.5	32.5	..	20.8	29	3	..	..	..	..	4	..	..	..	..	..	..	..	..	..
Ista Catchment																													
angtok . . .	12.7	..	16.8	20	5.0	..	2.2	31	52.9	102.7	..	63.3	6	5	..	4.1	2.8	..	10	0	1	1	4	0	4	0	0	0	
eyzing . . .	16.9	..	19.1	21	7.4	..	3.4	31	7.6	34.5	..	18.5	29	3	..	..	..	..	7	..	..	..	..	..	..	..	..	..

a) Mean of 30 days

(d) Mean of 27 days.

*Data not available

(R) Register not received.

(b) Mean of 29 days.

(c) Mean of 26 days.

(g) Mean of 24 days

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JANUARY, 1958 (PAUSA 11—MAGHA 11, 1879 SAKA)

Division and station	Hour of observation IST.	Height of barometer selenar above mean sea level in metres	Mean pressure in millibars		Mean temperature in °C				Cloud amount (Oktas)		Wind speed (km.p.h.)		No. of observations																
			At mean sea level or height in g.p.m. of nearest standard isobaric level		At station level	Departure from normal	Dry bulb	Wet bulb	Dew point	Vapour pressure in mb	Relative humidity %	Departure from normal	Mean amount	Departure from normal	Mean wind speed, km. per hour	62 or more	20 to 61	1 to 19	N	NE	E	SE	S	SW	W	NW	Calm	Variable	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
Bay Islands																													
Maya Bandar	0830	23	1015.6	1012.9	..	26.9	23.8	22.2	27.2	76	..	3.7	..	4.4	0	0	21	6	14	0	0	0	0	0	1	10	0		
	1730	"	1013.1	1010.4	..	27.1	24.3	22.9	28.2	78	..	4.2	..	7.9	0	0	27	3	23	0	0	0	0	0	1	0	4	0	
Long Island	0830	33	1015.4	1011.7	..	27.2	24.2	22.5	27.7	76	..	4.3	..	0.4	0	0	4	0	0	0	0	0	0	0	0	4	27	0	
	1730	"	1013.0	1009.2	..	27.1	23.7	21.9	27.6	72	..	4.5	..	0.1	0	0	1	0	0	0	0	0	0	0	0	1	30	0	
Port Blair	0530	79	1013.4	1004.4	..	24.4	22.7	22.0	26.4	89	..	3.4	..	7.3	0	2	21	3	17	2	0	0	0	0	0	1	8	0	
	0830	"	1015.4	1006.5	+1.7	28.8	24.6	22.7	27.0	70	-1	4.0	+0.6	9.4	0	0	28	2	23	3	0	0	0	0	0	0	3	0	
	1130	"	1013.7	1004.9	..	30.4	25.0	22.3	26.9	63	..	4.6	..	12.8	0	0	31	0	24	7	0	0	0	0	0	0	0	0	
	1730	"	1012.8	1003.9	..	26.5	23.6	22.2	27.1	77	..	4.2	..	10.1	0	0	28	0	24	3	0	0	0	0	0	0	1	3	0
	2330	"	1014.1	1005.1	..	25.0	23.1	22.2	26.6	85	..	3.8	..	11.1	0	2	28	0	25	2	0	0	0	0	0	1	2	1	0
Car Nicobar	0830	10	1014.5	1013.3	..	28.9	24.9	23.2	28.6	69	..	4.3	..	7.5	0	0	31	0	10	19	2	0	0	0	0	0	0	0	0
	1730	"	1011.8	1010.6	..	27.5	24.5	23.2	28.2	77	..	4.3	..	4.0	0	0	25	0	12	12	1	0	0	0	0	0	0	6	0
Nancowry	0830	26	1014.5	1011.6	..	28.8	25.7	24.4	30.7	78	..	5.1	..	0.1	0	0	1	0	0	0	0	0	0	0	0	0	30	0	
	1730	"	1012.2	1009.3	..	27.4	24.9	24.0	26.6	61	..	4.9	..	0	0	0	0	0	0	0	0	0	0	0	0	0	31	0	
Kondul	0830	8	1014.1	1013.2	..	28.1	25.6	24.4	30.9	81	..	3.7	..	11.0	0	0	29	8	16	5	0	0	0	0	0	0	2	0	
	1730	"	1011.7	1010.8	..	27.9	25.6	24.6	31.2	22	..	4.5	..	11.4	0	0	30	11	13	6	0	0	0	0	0	0	1	0	
Assam (Including Manipur, Tripura)	0830	157	1019.7	1001.2	..	16.0	13.3	10.8	13.2	72	..	4.5	..	20.3	0	16	15	9	1	1	0	0	0	2	18	0	0		
	1730	"	1016.4	998.0	..	16.3	14.5	13.1	15.0	82	..	4.9	..	5.3	0	2	21	3	0	0	1	1	0	1	17	8	0		
Digboi	0830	"	"	"	..	14.5	13.8	13.1	15.2	92	..	4.7	..	3.3	0	0	31	16	2	2	1	3	2	5	0	0	0		
	1730	"	"	"	..	19.2	16.4	14.7	16.4	75	..	5.3	..	3.1	0	0	31	9	3	4	2	0	6	7	0	0	0		
Dibrugarh	0830	106	1019.5	1006.9	..	16.4	14.6	13.2	15.1	81	-10	4.2	+0.1	2.6	0	0	23	3	8	12	0	0	0	0	0	8	0		
	1730	"	1015.9	1003.4	..	17.8	15.4	13.7	15.7	77	..	3.2	..	1.6	0	0	11	0	3	6	0	0	1	1	0	20	0		
Dibrugarh (Mohanbari Aerodrome)	0230	111	1016.8	1003.5	..	11.7	11.3	10.9	13.2	95	..	4.0	..	0.5	0	0	3	0	1	2	0	0	0	0	0	28	0		
	0530	"	1017.4	1004.1	..	11.2	10.9	10.7	12.9	97	..	4.4	..	0.7	0	0	4	0	3	1	0	0	0	0	0	27	0		
	0830	"	1019.7	1006.5	..	15.7	14.4	13.2	15.3	86	..	4.4	..	3.4	0	0	17	0	11	4	1	0	1	0	0	14	0		
	1130	"	1017.3	1004.4	..	20.2	15.8	12.2	14.4	61	..	4.8	..	4.6	0	0	21	3	10	8	0	0	0	0	0	10	0		
	1730	"	1016.1	1003.0	..	16.7	14.8	13.3	15.3	81	..	4.2	..	1.5	0	0	6	2	2	2	0	0	0	0	0	25	0		
North Lakhimpur	0230	102	1017.6	1004.4	..	12.4	11.3	11.2	13.4	93	..	3.7	..	0.8	0	0	6	1	3	2	0	0	0	0	0	25	0		
	0830	"	1019.1	1007.5	..	15.4	14.5	13.6	15.8	89	..	4.6	..	4.4	0	0	29	1	13	8	2	0	0	0	1	2	0		
Sibsagar	0830	"	1017.3	1005.4	..	20.1	16.3	13.5	15.3	67	..	4.5	..	5.4	0	0	31	1	5	10	12	2	0	0	1	0	0		
	1730	"	1015.2	1003.3	..	16.9	15.1	13.8	15.6	82	..	4.8	..	0.7	0	0	4	2	0	0	1	1	0	0	0	27	0		
Jorhat	0830	97	1019.7	1008.3	+1.4	16.1	14.9	14.0	16.1	87	-6	7.3	+0.9	1.9	0	0	15	2	5	0	1	0	3	3	1	16	0		
	1730	"	1016.0	1004.7	..	18.5	16.0	14.6	16.2	79	..	4.9	..	2.1	0	0	12	6	3	1	0	0	0	0	0	19	0		
Golaghat	0530	90	1016.8	1006.0	..	11.5	11.5	11.5	13.5	100	..	4.7	..	0.3	0	0	2	0	2	0	0	0	0	0	0	29	0		
	0830	"	1019.0	1008.4	..	15.4	14.8	14.2	16.4	93	..	4.9	..	2.1	0	0	9	3	2	0	1	2	0	0	0	1	22	0	
Gohpur	0830	"	1016.9	1006.5	..	21.1	17.2	14.3	16.5	66	..	3.6	..	8.3	0	0	26	10	10	0	0	0	0	0	0	1	2	3	0
	1730	"	1015.2	1004.7	..	17.6	15.9	14.6	17.0	83	..	3.1	..	4.2	0	0	11	9	2	0	0	0	0	0	0	0	0	20	0
Tespur	0830	"	"	"	..	20.9	19.0	17.5	20.4	82	..	4.9	..	0	0	4	0	0	29	2	15	0	8	2	0	1	2	0	0
	1730																												

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JANUARY, 1958 (PAUSA II—MAGHA II, 1879 SAKA)

Division and station.	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres.	Mean pressure in millibars.			Mean temperature in °C.			Cloud amount (Oktas).			Wind speed (km. p.h.)			No. of observations.																									
			At mean sea level or height in g.p.m. of nearest standard isobaric level.			At station level.			Departure from normal.			Departure from normal.			Mean amount.			62 or more, km. per hour.			N		NE		E		SE		S		SW		W		NW		Calm.		Variable.	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28										
Assam (Including Manipur, Tripura) (Contd.)																																								
Gauhati (Bhorjor Aerodrome)—(contd.)	0530	49	1016.6	1010.7	..	11.8	11.4	11.0	13.1	95	..	1.6	..	0.9	0	0	7	1	2	0	0	2	2	0	0	24	0													
	0830	"	1018.9	1013.1	..	16.5	14.8	13.6	15.5	83	..	2.4	..	1.5	0	0	13	2	6	0	0	3	1	0	1	18	0													
	1130	"	1016.9	1011.2	..	22.2	16.9	12.8	15.0	56	..	1.6	..	6.7	0	1	30	5	18	2	1	0	2	1	2	0	0													
	1730	"	1015.0	1009.3	..	19.9	16.6	14.2	16.2	70	..	3.5	..	1.1	0	0	7	1	2	1	0	0	0	2	1	24	0													
	2330	"	1017.1	1011.2	..	14.2	13.4	12.7	14.8	91	..	2.1	..	1.3	0	0	8	0	2	2	0	0	4	0	0	0	23	0												
Rangiya . .	0830	16.6	14.8	13.1	15.4	79	..	0.9	..	5.0	0	0	20	3	7	7	1	2	0	0	0	0	11	0												
Goalpara . .	0830	38	1017.7	1013.2	..	15.2	13.9	12.9	15.0	87	..	3.2	..	1.7	0	0	0	15	0	9	0	0	2	2	0	2	16	0												
Dhubri . .	0830	35	1019.2	1015.0	+1.3	17.7	15.9	14.7	16.3	83	-1	1.5	-0.2	6.2	0	0	31	0	24	1	3	0	2	1	0	0	0	0												
Dhubri (Rupsi Aerodrome) . .	0530	12.5	12.0	11.4	13.7	93	..	2.0	..	1.8	0	0	12	0	9	3	0	0	0	0	0	0	19	0												
	0830	"	16.8	14.8	13.4	15.3	80	..	2.0	..	5.5	0	0	28	1	10	6	7	2	2	0	0	0	3	0												
	1130	..	..	..	..	23.0	17.2	13.0	14.9	54	..	1.4	..	6.9	0	1	26	0	4	7	10	1	3	2	0	4	0									
	1730	..	..	..	..	18.5	16.2	14.5	16.6	78	..	1.2	..	0.9	0	0	4	1	1	1	0	0	0	0	0	27	0									
Tura . .	0830	370	1019.9	976.8	..	15.9	14.3	12.7	14.9	82	..	3.0	..	3.3	0	0	28	2	2	15	6	2	1	0	0	3	0													
	1730	"	1015.5	973.6	..	22.7	19.1	16.4	19.2	71	..	3.2	..	3.0	0	0	26	0	0	2	1	9	12	1	1	5	0													
Agartala . .	0230	16	1015.2	1013.3	..	13.5	12.7	12.0	14.0	92	..	1.6	..	2.2	0	0	14	1	2	6	4	1	0	0	0	17	0													
	0530	"	1015.4	1013.5	..	12.6	12.0	11.5	13.5	93	..	2.1	..	1.7	0	0	15	1	1	2	8	2	0	0	1	16	0													
	0830	"	1017.8	1015.9	..	18.6	16.2	14.2	16.5	77	..	2.4	..	3.1	0	0	21	3	1	1	6	2	1	2	5	10	0													
	1130	"	1016.3	1014.5	..	25.5	18.0	12.3	14.2	44	..	2.2	..	7.2	0	0	31	6	0	0	0	3	3	7	12	0	0													
	1730	"	1014.3	1012.5	..	22.3	17.2	13.4	15.5	58	..	2.5	..	2.4	0	0	18	8	3	0	1	1	2	1	2	13	0													
Silchar . .	0830	29	1018.8	1015.3	+0.8	17.3	15.5	14.1	16.2	82	-1	2.0	-0.2	2.0	0	0	22	0	9	9	4	0	0	0	0	9	0													
	1730	"	1014.8	1011.5	..	23.3	18.6	15.5	17.6	62	..	1.2	..	0.7	0	0	6	0	2	0	0	0	2	1	1	25	0													
Silchar (Kumbhigram Aerodrome) . .	0530	97	1015.6	1004.2	..	13.2	12.6	12.0	14.1	93	..	2.2	..	10.9	0	0	31	0	2	27	2	0	0	0	0	0	0	0												
	0830	"	1017.7	1006.3	..	17.1	14.9	13.2	14.1	78	..	2.3	..	10.0	0	0	30	0	2	23	5	0	0	0	0	1	0													
	1130	"	1015.5	1004.3	..	23.2	17.5	13.2	15.5	54	..	2.0	..	6.1	0	0	29	1	1	11	10	5	0	0	0	1	2	0												
	1730	"	1014.0	1002.7	..	20.1	16.8	14.4	16.4	70	..	1.6	..	4.6	0	0	25	6	9	8	0	0	0	1	1	6	0													
Imphal . .	0530	801	1021.7	927.8	..	5.7	5.6	5.6	9.1	99	..	3.5	..	0.2	0	0	2	0	0	0	0	2	0	0	0	0	29	0												
	0830	"	1021.7	929.9	..	12.2	10.3	8.3	11.7	78	..	2.7	..	1.3	0	0	13	0	0	1	0	10	1	0	1	18	0													
	1130	"	1016.5	927.3	..	19.3	13.7	9.1	11.7	52	..	1.9	..	8.9	0	2	27	0	1	0	4	13	6	3	2	2	0													
	1730	"	1015.6	925.9	..	17.4	12.9	8.9	11.7	59	..	2.3	..	8.1	5	3	26	0	0	0	0	0	1	0	14	4	2	0												
Haflong . .	0830	682	1018.3	940.8	..	16.4	13.3	10.8	13.1	71	..	2.1	..	1.3	0	0	8	1	0	0	1	0	4	2	0	23	0													
	1730	"	1014.8	937.8	..	17.4	13.5	10.4	12.7	65	..	3.2	..	0	0	0	31	7	1	0	1	3	8	0	0	11	0	0												
Lumding . .	0830	149	1019.5	1001.7	..	14.7	13.2	11.9	13.9	83	-7	2.7	..	0.3	0	0	2	1	1	0	0	0	0	0	0	0	29	0												
	1730	"	1014.5	997.5	..	21.9	17.3	13.9	16.0	61	..	4.8	..	0.6	0	0	3	0	0	0	2	1	0	0	0	0	0	28	0											
Sub-Himalayan West Bengal Cooch-Behar (C.W.O.)	0830	43	1019.1	1013.8	..	16.5	14.5	13.0	15.0	79	..	1.3	..	7.3	0	0	28	0	11	14	2	0	1	0	0	3	0													
	1130	"	1017.4	1012.3	..	22.7	17.0	12.7	14.5	54	..	1.5	..	10.0	0	0	31	0	7	13	1	1	1	1	0	0	7	0												
Jalpaiguri . .	0830	83	1019.0	1009.1	+1.2	13.6	12.8	12.0	14.1	90	+4	1.1	-0.3	2.9	0	0	21	10	3	1	0	0	1	1	5	10	0													
	1730	"	1014.9	1005.2	..	22.3	16.7	12.4	14.6	53	..	1.0	..	2.0	0	0	14	0	3	2	1	1	3	3	1	17	0													
Bagdogra . .	0230	131	1015.7	1000.2	..	13.6	12.6	11.7	13.6	89	..	2.1	..	2.0	0	0	23	19	1	0	0	0	0	0	0	4	14	0												
	0530	"	1016.1	1000.5	..	11.5	11.0	10.4	12.6	93	..	1.9	..	2.7	0	0	21	5	6	7	2	0	0	0	0	1	2	8	0											
	0830	"</																																						

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JANUARY, 1958 (PAUSA 11—MAGHA 11, 1879 SAKA)

Division and station	Hour of observation I.S.T.		Mean pressure in millibars.	Mean temperature in °C.			Cloud amount (Oktas).	Wind speed (km. p.h.)	No. of observations.																				
	1	2		4	5	6			8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25			
Gangetic West Bengal—(Contd.)																													
Calcutta	0830	6	1018.2	1017.5	+0.8	19.7	17.0	14.8	17.0	75	-7	2.0	+0.2	2.4	0	0	15	3	2	1	0	0	3	2	4	16	0		
	1130	"	1016.8	1016.1	..	26.6	18.7	12.6	15.3	43	..	2.3	..	5.6	0	0	30	5	1	3	0	0	7	7	1	0	0		
Barrackpore	0530	7	1015.8	1015.0	..	14.7	14.2	13.7	16.3	95	..	1.5	..	1.3	0	0	9	2	0	1	1	0	3	2	1	2	20		
	0830	"	1018.3	1017.5	..	19.6	16.9	14.7	16.9	73	..	2.3	..	3.5	0	0	16	4	1	2	1	1	3	1	3	15	0		
	1130	"	1017.1	1016.3	..	25.5	18.9	14.2	16.7	51	..	2.5	..	7.2	0	0	27	6	2	1	0	0	6	5	7	4	0		
	1730	"	1014.5	1013.7	..	22.1	17.5	14.0	16.3	62	..	2.0	..	1.0	0	0	9	0	0	0	1	2	3	0	3	22	0		
	2330	"	1016.4	1015.6	..	16.4	15.5	14.8	17.0	91	..	0.9	..	1.3	0	0	8	0	0	0	0	0	2	4	0	2	23		
Sauger Island	0830	3	1017.6	1017.2	+0.4	21.9	19.6	18.2	21.2	80	0	2.6	+0.4	10.0	0	0	4	21	9	8	0	0	3	3	1	1	6	0	
	1730	"	1014.0	1013.9	..	23.7	20.4	18.3	21.3	72	..	2.6	..	12.0	0	0	1	30	5	4	0	1	11	9	1	0	0	0	
Sandheads	0530	10	1015.4	1014.3	..	23.7	20.1	18.2	20.5	72	..	1.8	..	0	6	20	7	3	1	0	1	1	9	4	1	5	0		
	0830	"	1018.1	1017.0	+0.9	24.4	20.6	18.2	21.1	69	+6	1.8	0	0	0	5	21	7	4	0	0	1	9	3	2	5	0		
	1130	"	1017.3	1016.2	..	25.2	20.9	18.3	21.6	66	..	2.0	..	0	4	22	7	6	0	0	1	1	5	7	1	1	6	0	
	1730	"	1014.9	1013.8	..	25.2	21.0	18.4	21.6	67	..	1.9	..	0	3	22	2	7	1	1	1	1	5	7	1	1	6	0	
	2330	"	1016.3	1015.2	..	24.1	20.4	17.9	21.2	70	..	1.9	..	0	1	20	0	4	1	1	0	0	5	10	1	0	10	0	
Contai	0830	11	1018.0	1016.8	..	21.9	18.5	15.9	18.7	70	..	1.6	..	2.5	0	0	21	7	1	1	0	3	4	3	2	10	0		
	1730	"	1014.6	1013.4	..	23.6	19.5	16.6	19.2	66	..	1.7	..	3.2	0	0	22	2	0	1	4	13	1	0	1	9	0		
Midnapore	0830	45	1018.5	1013.2	+1.0	21.6	15.7	10.6	13.2	52	-12	1.5	-0.3	3.8	0	0	22	8	9	1	0	0	2	2	0	9	0		
	1730	"	1013.9	1008.8	..	26.5	17.3	10.1	12.4	38	..	1.4	..	1.7	0	0	12	6	2	1	1	2	0	0	0	19	0		
Purulia	0830	255	1019.3	989.6	..	17.4	12.7	7.5	10.9	52	..	1.5	..	2.0	0	0	15	2	2	0	0	0	0	0	8	3	16		
	1730	"	1014.8	985.9	..	24.5	16.2	8.9	11.7	38	..	2.7	..	1.3	0	0	8	1	0	0	1	0	1	2	3	23	0		
Burdwan	0830	32	1018.4	1014.7	+0.9	19.6	16.1	13.4	15.3	66	4	1.5	-0.3	0.8	0	0	8	2	2	0	0	1	0	0	3	23	0		
	1730	"	1015.0	1011.3	..	24.2	19.4	15.2	18.8	61	..	1.6	..	0.1	0	0	1	0	0	0	1	0	0	0	0	30	0		
Krishnagar	0830	15	1018.5	1016.8	+1.1	18.5	15.5	13.2	15.1	72	-1	1.4	+0.1	1.7	0	0	16	5	1	3	0	5	0	2	0	15	0		
	1730	"	1014.8	1013.1	..	24.1	18.2	14.2	16.3	54	..	1.0	..	0.1	0	0	1	0	0	0	1	0	0	0	0	30	0		
Asansol	0230	126	1015.9	1001.1	..	15.9	12.4	9.0	11.4	64	..	1.5	..	1.1	0	0	7	2	0	1	1	0	0	0	0	3	24	0	
	0530	"	1016.4	1001.5	..	14.5	11.9	9.2	12.1	71	..	1.6	..	1.7	0	0	11	1	0	0	0	0	0	0	1	9	20		
	0830	"	1018.6	1003.8	+1.1	18.0	14.0	10.3	12.9	62	-4	1.7	-0.2	4.0	0	0	20	0	0	0	0	0	0	0	4	16	11		
	1130	"	1017.1	1002.7	..	25.0	16.5	9.2	11.7	39	..	1.4	..	5.5	0	0	26	1	1	1	1	0	0	0	7	15	5		
	1730	"	1014.3	999.8	..	24.1	16.3	9.7	12.3	41	..	1.8	..	1.9	0	0	11	0	0	0	1	0	0	0	2	8	20		
	2330	"	1006.6	1001.8	..	17.6	13.1	8.8	11.5	57	..	1.4	..	1.6	0	0	9	3	0	0	1	1	0	0	0	4	22		
Suri	0830	77	1018.7	1009.7	..	18.4	13.8	9.5	11.9	58	..	1.8	..	5.1	0	0	30	7	2	0	1	2	8	10	1	0			
	1730	"	1015.2	1006.3	..	24.1	15.8	8.5	11.2	38	..	2.2	..	3.6	0	0	24	5	1	1	2	1	1	5	8	7	0		
Berhampore	0830	19	1018.3	1016.0	+0.5	16.6	14.1	12.2	14.1	75	-2	2.0	+0.2	0	0	0	0	0	0	0	0	0	0	0	0	31	0		
	1730	"	1014.3	1012.1	..	23.1	17.5	13.1	15.6	54	..	0.1	..	0	0	0	0	0	0	0	0	0	0	0	0	0	31	0	
Orissa—Baripada	0830	54	1018.9	1012.5	..	19.2	14.8	11.0	13.3	60	..	1.8	..	1.7	0	0	22	10	3	0	1	0	2	1	5	9	0		
	1730	"	1014.5	1008.3	..	25.4	19.5	15.0	18.0	56	..	1.6	..	0.7	0	0	5	1	0	1	2	0	1	0	0	26	0		
Balasore	0830	20	1018.1	1015.8	+0.6	21.0	16.6	12.8	15.3	61	-11	2.7	+0.9	4.6	0	0	30	13	8	0	0	2	2	0	5	1	0		
	1730	"	1014.2	1011.9	..	24.3	19.6	16.3	19.0	63	..	3.3	..	4.3	0	0	24	1	2	0	12	9	0	0	0	7	0		
Chandbali	0830	6	1018.7	1018.0	+1.2	22.5	18.8	16.3	18.9	69	-6	2.3	+0.5	5.1	0	0	31	4	4	1	0	1	6	2	13	0			
	1730	"	1014.9	1014.2	..	24.6	19.4	16.0	18.7	58	..	3.0	..	5.9	0	0	31	1	6	6	16	0	1	0	1	0	0		
Cuttack	0830	27	1017.9	1014.8	+0.4	19.3	17.6	16.1	18.9	83	+5	2.6	+0.6	0.3	0	0	2	0	2	1	0	0	0	0	0	29	0		
</td																													

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JANUARY, 1958 (PAUSA II—MAGHA II, 1879 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres,	Mean pressure in millibars.			Mean temperature in °C.			Vapour pressure in mbs.	Relative humidity %.	Departure from normal.	Cloud amount (Okta).	Wind speed (km. p.h.)	No. of observations.															
			At mean sea level or height in g. p.m. of nearest standard isobaric level.			At station level.								Wind direction.															
	2	3	4	5	6	7	8	9						N	NE	E	SE	S	SW	W	NW	Calm,	Variable,						
1																													
Orissa—(Contd.)	Titilagarh . .	0830	211	1018.0	993.8	..	19.4	15.3	11.7	14.0	61	..	1.8	..	1.7	0	0	15	2	3	0	1	2	3	3	1	16	0	
		1730	"	1013.6	989.7	..	28.2	18.3	10.5	12.9	33	..	0.9	..	2.0	0	0	21	7	8	0	3	0	0	1	2	10	0	
Bolangir	0830	..	..	..	..	22.1	17.4	14.1	16.1	61	..	..	..	..	..	..	..	..	8	1	1	3	3	2	2	1	10	0
		1730	..	..	..	26.0	19.3	14.7	17.0	50	..	..	..	..	..	..	..	..	8	5	0	3	3	0	1	1	10	0
Angul . .	0830	139	1018.0	1002.4	+1.2	18.5	14.8	11.6	14.0	65	-8	2.3	0	2.6	0	0	19	0	1	0	0	0	0	5	9	4	12	0	
		1730	"	1014.0	998.4	..	27.2	17.1	8.3	11.6	32	..	2.8	..	2.9	0	0	24	2	13	3	0	0	0	2	1	3	7	0
Keonjhar . .	0830	463	1015.8	963.0	..	18.8	14.0	9.4	12.7	56	..	2.1	..	3.3	0	0	26	5	3	4	2	1	1	2	8	5	0		
		1730	"	1011.1	959.5	..	24.2	16.0	8.9	12.0	40	..	1.9	..	5.3	0	0	30	2	3	0	0	0	3	3	14	4	1	1
Sambalpur . .	0830	148	1018.7	1001.5	+1.2	19.3	15.2	11.6	13.9	61	-10	1.9	+0.1	0.7	0	0	5	3	2	0	0	0	0	0	0	26	0		
		1730	"	1014.4	997.3	..	26.9	18.3	12.0	14.1	40	..	1.2	..	0.1	0	0	1	0	0	0	0	0	0	0	0	1	30	0
Jharsuguda . .	0230	230	1015.8	988.8	..	15.0	12.9	11.0	13.5	78	..	1.5	..	2.0	0	0	16	0	9	0	0	0	0	0	0	7	15	0	
		0530	"	1016.3	989.1	..	13.4	11.7	10.0	12.5	80	..	1.2	..	3.8	0	0	26	0	15	1	0	1	0	1	8	5	0	
Chota Nagpur—Jamshedpur . .	0830	129	1018.8	1003.6	+0.8	16.4	13.9	10.9	13.9	71	-3	1.8	-0.1	3.7	0	1	20	0	1	0	0	0	2	11	7	10	0		
		1730	"	1014.1	999.4	..	24.5	17.6	12.3	14.5	48	..	2.1	..	2.0	0	0	12	0	0	4	0	0	1	4	3	19	0	
Jamshedpur (P.B.O.)	0530	145	1016.6	999.4	..	14.2	12.0	9.9	12.3	77	..	1.7	..	2.9	0	0	22	2	2	0	0	0	0	5	7	6	9	0	
		0830	"	1018.7	1001.7	..	16.7	13.2	10.0	12.2	65	..	2.3	..	4.2	0	0	25	1	0	1	0	0	0	2	10	11	6	0
Chaibasa . .	0830	226	1018.5	992.2	+1.1	18.1	14.5	11.3	13.6	65	-11	2.3	+0.3	1.1	0	0	11	0	2	0	0	0	0	9	0	0	20	0	
		1730	"	1013.8	988.2	..	24.6	17.9	12.5	15.2	47	..	2.8	..	0.9	0	0	9	0	1	0	0	0	0	8	0	0	22	0
Ranchi . .	0830	655	1016.6	942.6	+0.2	18.4	12.6	7.1	10.4	50	-9	0.5	-1.6	..	0	0	11	1	0	1	2	-22	1	1	3	19	0		
		1730	"	1014.8	941.3	..	21.8	14.6	8.7	11.4	46	..	2.2	..	..	0	0	2	0	1	0	0	1	0	0	3	29	0
Ranchi (G.W.O.)	0530	652	1017.3	942.1	..	12.8	9.6	6.0	9.5	65	..	1.9	..	1.5	0	0	14	3	2	0	0	0	2	2	5	17	0		
		0830	"	1018.2	944.5	..	18.4	12.3	6.6	9.9	48	..	1.5	..	3.0	0	0	22	1	4	1	0	3	6	2	5	9	0	
Daltonganj . .	0830	221	1019.4	993.4	+1.0	15.8	12.6	9.5	11.9	67	-13	2.7	+1.1	1.5	0	0	11	3	0	0	2	2	0	3	1	20	0		
		1730	"	1014.6	989.4	..	22.3	16.1	10.6	12.9	48	..	2.5	..	2.0	0	0	17	3	1	2	0	1	0	6	4	14	0	
Hazaribagh . .	0830	611	1018.7	948.8	+1.3	16.5	11.6	6.8	9.5	54	-6	2.0	+0.1	3.6	0	0	20	2	1	1	0	1	5	5	11	0			
		1730	"	1014.3	945.8	..	21.0	13.2	5.9	9.0	39	..	2.9	..	6.5	0	0	28	9	2	0	1	1	0	14	3	0		
Dhanbad . .	0830	257	1018.6	988.7	..	18.7	13.0	7.2	10.1	48	..	1.7	..	4.3	0	0	31	7	2	0	0	3	1	16	2	0			
		1730	"	1014.5	985.2	..	23.4	15.1	7.5	10.4	37	..	2.5	..	3.2	0	0	28	12	5	0	0	2	0	3	6	3	0	
Bihar—Purnea . .	0830	38	1019.0	1014.5	+1.1	15.9	13.5	11.3	13.4	75	-10	1.0	-0.4	3.5	0	0	22	2	5	2	0	7	4	0	9	0			
		1730	"	1014.7	1010.3	..	20.8	15.8	11.9	13.9	58	..	1.8	..	1.4	0	0	12	1	0	1	0	0	5	3	2	19	0	
Forbesganj . .	0830	61	1018.6	1011.3	..	14.4	13.3	12.1	14.4	87	..	1.7	..	3.7	0	0	23	0	3	12	0	0	1	7	0	8	0		
		1730	"	1014.5	1007.5	..	22.0	16.8	12.9	14.8	57	..	2.3	..	2.0	0	0	13	0	1	2	0	0	0	9	1	18	0	
Darbhanga . .	0830	49	1018.8	1012.9	+1.0	14.7	13.2	11.7	14.2	83	+1	0.7	-0.9	1.0	0	0	10	0	1	1	0	1	1	0	1	6	0	21	0
		1730	"	1015.0	1009.3	..	21.0	17.3	14.0	15.8	61	..	1.8	..	0.3	0	0	3	0	0	1	1	0	0	1	0	28	0	
Motihari (R) . .	0830	66																											
		1730	"																										
Patna . .	0830	53	1018.6	1012.4	+0.6	17.0	13.6	10.4	13.0	66	-5	1.9	+0.2	4.5	0	0	24	0	1	1	2	1	13	4	2	7	0		
		1730	"	1015.2	1009.1	..	21.8	15.8	11.0	12.9	51	..	2.5	..	4.3	0	0	23	0	3	0	1	0	4	13	2	8	0	
Patna (Aerodrome)	0530	60	1016.1	1008.9	..	11.4	10.4	9.5	11.7	89	..	2.3	..	3.0	0	0	9	0	0	4	0	1	1	3	0	22	0		
		0830	"	1018.3	1011.0	..	15.0	12.7	10.3	13.0	76	..	2.5	..	5.2	0	0	16	0	1	1	3	2	3					

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JANUARY, 1958 (PAUSA 11—MAGHA 11, 1879 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres.	Mean pressure in millibars.			Mean temperature in °C.			Vapour pressure in mbs.	Relative humidity %.	Cloud amount (Oktas).	Wind speed (km. p.h.)	No. of observations.															
			At mean sea level or height in g.p.m. of nearest standard isobaric level.			At station level.							Wind direction.															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bihar—(Contd.)																												
Gaya—(contd.).	1730	116	1015·3	1001·9	..	22·2	17·0	13·1	15·0	57	..	2·3	..	5·5	0	0	26	12	7	1	0	0	1	0	5	5	0	
	2330	"	1017·7	1003·9	..	14·8	12·5	10·4	12·8	75	..	1·4	..	1·6	0	0	10	0	1	0	1	4	2	1	1	21	0	
Jamui . . .	0830	82	1019·0	1009·1	..	15·1	12·7	10·1	12·6	73	..	1·8	..	3·0	0	0	21	1	2	6	2	1	0	1	8	10	0	
Dumka . . .	1730	"	1014·8	1005·3	..	23·2	17·2	12·3	14·6	52	..	2·1	..	4·1	0	0	23	0	1	1	0	0	0	1	0	20	8	0
	0830	149	1018·8	1001·5	+1·1	19·5	13·9	8·8	11·5	51	-15	0·9	-0·5	0·6	0	0	4	0	0	0	0	1	0	0	1	2	27	0
Bhagalpur . . .	1730	"	1014·7	997·5	..	23·9	15·9	9·4	11·6	41	..	1·7	..	0·6	0	0	4	1	0	0	1	0	0	1	0	1	27	0
	0530	49	1016·6	1010·8	..	13·6	12·8	10·3	12·7	81	..	1·3	..	3·5	0	0	14	1	1	2	0	0	7	3	0	17	0	
Sabour . . .	0830	"	1018·8	1013·0	..	15·4	13·0	10·9	12·9	76	..	1·1	..	3·0	0	0	15	0	1	2	1	0	6	5	0	16	0	
	1130	"	1018·0	1012·3	..	21·8	16·1	11·3	13·5	52	..	1·7	..	6·2	0	0	23	2	0	2	0	1	2	11	3	6	0	
Nautanwa . . .	1730	"	1015·2	1009·5	..	21·7	16·4	12·2	14·5	56	..	2·2	..	4·4	0	0	23	1	3	1	1	0	3	0	2	3	16	0
	2330	"	1017·2	1011·4	..	16·8	13·8	11·3	13·3	70	..	0·9	..	3·0	0	0	15	1	0	3	0	2	3	3	3	16	0	
Gorakhpur . . .	0830	37	1018·7	1014·2	+0·6	15·6	13·5	11·4	13·6	78	-4	1·5	-0·3	3·8	0	1	22	0	2	1	2	1	12	5	0	8	0	
	1730	"	1014·7	1010·4	..	21·8	17·2	13·7	15·7	61	..	2·8	..	2·8	0	0	16	2	0	1	0	0	0	1	12	15	0	
Uttar Pradesh (East)	0830	110	1019·1	1008·9	..	14·0	12·2	10·4	12·4	80	0	1·6	-0·7	1·0	0	0	9	2	0	1	0	0	0	0	6	22	0	
	1730	"	1015·6	1002·6	..	20·5	15·7	12·4	13·9	61	..	1·6	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0	
Nautanwa . . .	0830	99	1018·9	1007·0	..	12·4	11·8	10·9	13·0	90	..	1·7	..	1·4	0	0	12	1	2	1	2	3	1	1	1	19	0	
	1730	"	1015·0	1003·5	..	21·0	16·0	12·0	14·0	58	..	2·1	..	1·1	0	0	9	0	0	0	1	1	2	5	0	22	0	
Gorakhpur . . .	0830	77	1018·5	1009·1	+0·9	14·0	12·5	10·9	12·9	81	+2	1·6	+0·2	1·0	0	0	10	2	0	2	0	0	2	4	0	21	0	
	1730	"	1015·3	1006·2	..	21·6	16·4	12·2	14·9	56	..	1·8	..	0·9	0	0	9	0	1	1	1	0	2	4	0	22	0	
Gorakhpur (P.B.O.)	0230	78	1016·2	1006·8	..	13·3	12·0	10·8	12·9	85	..	1·2	..	4·0	0	0	20	7	3	0	1	0	2	6	1	11	0	
	0530	"	1015·9	1006·5	..	12·2	11·1	10·2	12·3	88	..	0·8	..	4·1	0	0	16	3	1	0	1	2	1	5	3	15	0	
Azamgarh . . .	1130	"	1017·9	1008·8	..	21·5	16·0	11·7	13·2	55	..	2·2	..	6·5	0	0	30	0	2	0	5	9	6	8	0	1	0	
	2330	"	1016·9	1007·6	..	14·6	13·1	11·7	13·4	84	..	1·4	..	4·3	0	1	18	9	0	0	0	1	3	5	0	12	0	
Ballia . . .	0830	78	1018·3	1009·0	..	13·2	12·0	10·4	13·3	88	..	1·9	..	0	0	20	0	1	3	0	0	0	0	16	0	11	0	
	1730	"	1015·2	1006·1	..	20·4	17·0	14·5	16·5	70	..	1·5	..	2·7	0	0	21	0	4	0	1	2	12	1	1	10	0	
Varanasi (Banaras).	0830	76	1018·4	1009·3	+0·5	14·5	12·4	10·5	12·6	77	-1	2·5	+0·9	4·5	0	0	25	2	0	4	1	6	9	3	0	6	0	
	1730	"	1015·0	1006·2	..	22·6	16·7	11·7	14·2	52	..	2·5	..	4·1	0	0	25	5	2	0	0	0	3	7	8	6	0	
Varanasi (Banaras) (Babatpur Aerodrome)	0530	85	1017·5	1007·1	..	10·8	9·9	8·9	11·8	88	..	1·9	..	2·9	0	0	20	0	2	2	2	4	8	1	1	11	0	
	0830	"	1019·5	1009·3	..	14·6	12·6	10·7	12·7	78	..	3·0	..	4·4	0	0	21	0	1	3	3	1	9	4	0	10	0	
Allahabad (Bamrauli)	1130	"	1018·9	1008·9	..	22·1	16·1	11·9	13·4	51	..	2·6	..	9·3	0	0	28	0	3	2	5	0	13	8	0	0	0	
	2330	"	1016·3	1006·3	..	21·5	16·2	12·2	14·4	56	..	2·6	..	4·3	0	0	26	4	5	1	1	0	3	9	3	5	0	
Banda . . .	0230	98	1016·8	1008·4	..	12·9	11·2	9·4	11·9	80	..	1·6	..	2·0	0	0	13	1	2	2	2	0	3	2	2	16	0	
	0530	"	1016·7	1004·9	..	11·5	10·4	9·2	11·9	86	..	1·8	..	2·4	0	0	17	1	3	3	0	2	3	5	0	14	0	
Fatehpur . . .	0830	114	1018·6	1004·9	..	14·6	12·1	9·7	12·0	74	..	1·1	..	2·0	0	0	15	0	3	0	2	3	2	1	8	0	23	0
	1730	"	1015·2	1002·0	..	22·6	16·0	10·3	12·9	46	..	2·7	..	1·0	0	0	5	1	2	2	1	0	0	0	1	2	26	0
Kanpur . . .	0830	126	1019·1	1004·1	+1·3	13·4	11·2	9·0	11·4	76	-2	3·1	+1·8	5·8	0	1	22	1	6	4	0	1	3	6	2	8	0	
	1730	"	1015·8	1001·2	..	22·0	15·4	9·6	12·3	46	..	2·9	..	6·0	0	1	27	2	6	5	0	0	3	9	3	3	0	
Lucknow	0830	111	..	1006·4	+2·0	12·2	10·9	9·5	11·9	84	+6	2·2	+0·4	..	0	0	31	0	0	0	12	1	0	1	16	1	0	
	1730	"	..	1003·0	..	21·2	16·1	12·3	14·3	58	..	1·7	..	..	0	0	30	0	0	2	0	0	2	18	7	1	1
Lucknow [(Amausi Aerodrome)]	0230	128	1016·7	1011·3	..	11·1	10·2	9·4	11·4	89	..	1·9	..	3·5	0	0	15	2	1	2	1	0	1	4	4	16	0	
	0530	"	1016·7																									

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JANUARY, 1958 (PAUSA 11—MAGHA 11, 1879 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars		Mean temperature in °C			Vapour pressure in mb	Relative humidity %	Cloud amount (Oktas)	Wind speed (km. p.h.)	No. of observations																
			At mean sea level or height in f.p.m. of nearest standard isobaric level		At station level	Departure from normal	Dry bulb	Wet bulb	Dew point	Departure from normal		Mean amount	Departure from normal	Mean wind speed, km. per hour	N	NE	E	SE	S	SW	W	NW	Calm.	Variable.				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (East) —(Contd.)																												
Bahraich	0830	124	1018.7	1003.7	+1.2	13.8	12.2	10.4	12.9	80	-1	1.8	+0.3	1.3	0	0	14	2	0	2	2	0	1	4	3	17	0	
Uttar Pradesh (West)	1730	"	1015.5	1001.0	..	19.8	15.6	11.4	14.5	60	..	1.2	..	0.7	0	0	7	0	1	0	1	0	2	3	0	24	0	
Orai . . .	0830	141	1020.0	1003.3	..	15.4	12.3	9.0	12.0	65	..	1.5	..	3.0	0	0	22	1	2	0	..	2	3	3	6	9	0	
Jhansi . . .	1730	"	1016.1	999.9	..	22.9	16.0	10.1	12.4	46	..	0.9	..	3.2	0	0	29	7	8	0	0	1	2	4	7	2	0	
Jhansi . . .	0830	251	1019.0	989.3	+0.4	13.4	11.0	8.5	11.0	72	+10	2.2	+0.5	0.5	0	0	7	1	0	0	1	0	1	0	4	24	0	
Agra . . .	1730	"	1014.7	986.2	..	24.6	16.0	8.4	11.6	37	..	2.0	..	2.1	0	0	23	5	10	0	0	0	1	0	7	8	0	
Agra (Aerodrome) (R)	0830	169	1019.5	999.3	+1.2	12.9	10.6	8.5	11.0	75	+11	1.5	-0.7	1.0	0	0	8	2	0	0	0	1	3	1	1	23	0	
(R)	1730	"	1015.6	996.3	..	22.6	15.6	9.4	12.4	44	..	1.8	..	1.6	0	0	12	2	3	0	0	0	1	2	4	19	0	
(R)	2330	"																										
Mainpuri . . .	0830	157	1019.2	1000.8	+1.5	11.4	10.4	8.9	11.6	86	+13	1.5	-0.7	0.3	0	0	3	9	0	0	0	0	0	0	2	1	28	0
	1730	"	1015.3	997.3	..	21.9	16.3	12.3	14.1	54	..	1.1	..	0.4	0	0	4	0	0	1	0	0	0	0	3	0	27	0
Aligarh . . .	0830	187	1010.1	996.4	..	11.0	9.8	8.2	11.4	83	+19	2.4	+0.9	2.6	0	0	20	2	0	4	0	0	0	0	13	1	11	0
Bareilly . . .	0830	173	1013.5	997.9	+1.0	13.2	11.6	9.9	12.4	81	0	2.5	-0.2	2.1	0	0	14	1	1	3	0	0	0	0	4	5	17	0
Bareilly (P.B.O.) . . .	0230	172	1016.7	996.2	..	13.1	11.5	10.2	12.4	83	..	1.6	..	3.3	0	0	16	4	2	3	0	0	0	0	2	5	15	0
	0530	"	1016.4	995.9	..	11.7	10.5	9.5	11.9	87	..	1.3	..	3.4	0	0	16	0	4	1	0	0	0	0	7	4	15	0
	1130	"	1018.4	998.3	..	19.0	14.6	11.4	12.9	62	..	2.6	..	7.0	0	0	30	1	0	4	3	2	1	8	11	1	0	
	2330	"	1017.4	996.6	..	14.3	12.3	10.8	12.9	80	..	1.5	..	3.6	0	0	16	2	4	1	0	0	0	0	6	3	15	0
Meerut . . .	0830	222	1019.5	993.1	+2.2	13.7	11.4	9.3	11.9	77	0	1.6	-0.9	2.0	0	0	11	0	0	2	0	0	0	1	6	2	20	0
Najibabad . . .	0830	270	1018.7	986.5	..	10.2	9.6	8.8	11.4	91	..	2.2	..	1.5	0	0	14	2	3	2	0	0	0	0	7	17	0	
	1730	"	1016.4	985.3	..	20.6	15.5	11.1	13.6	56	..	2.1	..	1.7	0	0	13	0	1	1	2	0	0	0	9	18	0	
Roorkee . . .	0830	274	1019.1	986.5	+1.3	11.2	10.3	9.3	11.8	89	+6	3.5	+0.9	0.7	0	0	7	0	0	0	0	0	0	0	7	24	0	
	1730	"	1015.9	984.2	..	18.9	14.6	10.9	13.2	60	..	4.1	..	0.8	0	0	9	0	0	0	1	0	0	0	8	22	0	
Dehra Dun . . .	0530	632	1017.2	937.9	..	9.8	8.5	7.2	10.1	84	..	2.5	..	1.7	0	0	17	8	6	0	0	0	0	0	1	2	14	0
	0330	"	1019.3	940.0	+1.8	10.8	8.9	7.1	9.6	78	+5	3.8	+0.4	1.2	0	0	11	4	5	0	0	1	0	0	1	19	1	
	1130	"	1018.0	940.6	..	17.3	12.7	8.7	11.2	59	..	4.2	..	1.8	0	0	18	0	2	0	2	6	5	3	0	13	0	
	1730	"	1015.6	938.1	..	16.8	13.0	10.0	11.6	66	..	3.8	..	0.6	0	0	7	1	0	0	0	0	1	3	2	24	0	
	2330	"	1018.2	939.2	..	11.7	9.9	8.2	10.9	80	..	2.2	..	1.6	0	0	16	6	7	0	0	0	0	0	1	15	0	
Punjab (India) (including Delhi) . . .	0230	216	1017.6	991.8	..	11.9	9.9	7.6	10.7	76	..	1.4	..	4.5	0	0	22	1	1	2	0	1	3	4	10	9	0	
New Delhi . . .	0530	"	1017.4	991.4	..	10.2	8.9	7.5	10.3	83	..	1.7	..	4.4	0	0	18	1	1	1	0	0	1	3	6	13	0	
	0330	"	1019.2	993.1	+0.8	10.7	9.3	7.7	10.6	82	+6	3.0	-0.3	6.0	0	0	27	0	2	0	2	1	5	10	7	4	0	
	1130	"	1019.2	993.9	..	19.4	13.9	8.7	11.4	52	..	3.0	..	8.9	0	3	24	1	2	2	3	1	2	5	11	4	0	
	1730	"	1016.1	990.8	..	20.5	14.5	8.9	11.5	49	..	2.6	..	6.5	0	0	27	2	3	7	0	0	0	0	3	12	4	0
	2330	"	1018.2	992.4	..	13.2	10.9	8.5	11.3	74	..	1.5	..	3.8	0	0	19	3	0	1	1	2	0	0	3	9	12	0
Hissar . . .	0530	221	1017.5	990.9	..	9.1	8.1	7.1	10.2	87	..	2.2	..	3.0	0	0	21	1	0	4	3	1	2	6	4	10	0	
	0830	"	1019.4	992.7	+0.5	9.2	8.1	6.8	10.1	86	+17	3.0	+0.8	3.2	0	0	24	2	2	4	2	1	5	7	1	7	0	
	1130	"	1019.1	993.4	..	20.0	14.0	8.6	11.0	49	..	2.7	..	2.9	0	0	21	1	1	2	6	2	1	1	7	10	0	
	1730	"	1016.1	990.5	..	20.5	13.9	7.6	10.5	45	..	3.2	..	3.3	0	0	22	6	2	3	0	1	1	5	4	9	0	
	2330	"	1013.5	992.0	..	11.6	9.8	7.9	10.8	78	..	1.3	..	1.6	0	0	14	0	2	3	2	0	1	0	6	17	0	
Karnal . . .	0830	243	1018.9	989.1	..	10.7	9.6	8.1	10.9	83	..	3.1	..	0	0	0	3	0	0	0	1	0	0	1	1	28	0	
	1730	"	1016.2	987.3	..	19.5	14.6	10.2	12.4	56	..	3.6	..	0	0	0	1	0	0	0	0	0	0	0	1	30	0	
Patiala . . .	0830	251	1019.0	989.2	..	10.8	9.4	7.9	10.5	83	..	3.4	..	2.6	0	0	0	17	4	0	6	2	0	0	1	4	14	0
	1730	"	1016.5	987.4	..	18.3	13.9	9.7	12.3	58	..	3.4	..	4.5	0	0	16	5	0	0	2	0	0	0	9	15	0	
Ambala . . .	0830	272	1018.6	986.0	+0.6	10.3	9.5	8.1	10.9</																			

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JANUARY, 1958 (PAUSA 11—MAGHA 11, 1879 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars.		Mean temperature in °C			Vapour pressure in mb	Relative humidity %	Departure from normal	Cloud amount (Oktas)		Wind speed (km. p.h.)	No. of observations															
			At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Dry bulb	Wet bulb	Dew point				Mean amount	Departure from normal		N	NE	E	SE	S	SW	W	NW	Calm.	Variable.						
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28		
1																													
Punjab (India) (Including Delhi) (Contd.) Ambala (Aerodrome) (R) (R)	1730	273																											
	2330	"	1018.0	977.2	..	11.8	10.1	8.3	10.9	80	..	1.7	..	..	0	0	7	0	1	1	2	0	0	0	3	24	0
Chandigarh	0830	347	1018.0	975.7	..	19.1	13.9	9.4	11.6	53	..	1.6	..	..	0	0	19	0	0	0	8	0	4	0	7	12	0
	1730	"	1018.7	987.5	-0.9	11.7	10.2	8.6	10.9	83	+4	2.4	-0.3	1.7	0	0	16	0	2	0	5	0	2	4	3	15	0		
Ludhiana	0830	247	1019.0	987.7	..	18.3	14.8	10.7	13.8	63	..	2.8	..	2.2	0	0	16	3	1	1	1	0	0	0	0	2	1	26	0
	1730	"	1016.1	987.5	..	19.7	14.7	10.0	12.4	55	..	2.2	..	0.9	0	0	5	1	1	0	0	0	0	0	0	7	22	0	
Ferozepur	0830	200	1019.7	995.1	..	8.3	7.8	7.1	10.1	93	..	1.9	..	0.6	0	0	5	1	1	0	0	0	0	0	0	0	7	2	0
	1730	"	1016.4	993.1	..	19.7	14.7	10.0	12.4	55	..	2.2	..	0.9	0	0	9	1	0	0	1	0	0	0	0	7	22	0	
Amritsar	0530	234	1018.0	989.6	..	7.0	6.7	6.3	9.7	95	..	2.2	..	4.8	0	0	24	2	2	4	0	0	0	1	8	7	7	0	
	0830	"	1019.2	991.1	..	7.4	6.8	6.2	9.3	92	..	3.5	..	3.7	0	0	22	3	1	5	2	1	1	4	5	9	0		
Pathankot	1130	"	1019.5	992.1	..	16.4	12.6	8.5	11.6	58	..	3.1	..	6.8	0	1	23	2	3	3	0	3	3	7	7	0			
	1730	"	1016.6	989.3	..	18.2	13.4	8.8	11.8	54	..	3.8	..	5.6	0	0	29	7	1	2	3	0	0	0	7	9	2	0	
Pathankot (Aero-drome)	0830	344	1019.0	978.1	..	10.7	9.4	8.1	10.8	84	..	4.4	..	1.9	0	0	18	0	2	12	3	0	0	0	1	13	0		
	1730	"	1017.0	977.2	..	17.5	14.3	11.5	13.8	68	..	4.8	..	1.6	0	0	13	0	1	0	1	0	1	0	1	18	0		
Himachal Pradesh Bilaspur	0530	312	1019.0	983.0	..	17.3	13.1	9.1	11.7	60	..	4.3	..	3.5	0	0	23	1	5	1	4	0	10	1	1	8	0		
	0830	"	1019.0	982.0	..	10.9	9.6	8.2	10.8	84	..	4.2	..	1.6	0	0	12	0	8	1	0	0	3	0	0	19	0		
Mandi	1730	"	1016.6	980.5	..	17.6	13.5	9.7	14.7	60	..	4.0	..	3.9	0	0	22	1	1	2	2	0	3	10	3	9	0		
	0830	493	1020.4	961.7	..	7.8	7.6	7.3	10.2	97	..	7.0	..	1.7	0	0	17	2	1	1	3	4	2	1	2	14	1		
Jammu & Kashmir Srinagar	0830	761	1020.9	931.6	..	6.6	6.2	5.9	9.1	95	..	6.8	..	0.6	0	0	6	0	0	0	1	0	0	2	3	0	25	0	
	1730	"	1015.1	928.9	..	15.6	11.6	7.7	10.6	61	..	5.2	..	2.1	0	0	15	0	0	1	4	2	2	4	2	16	0		
Guimarg	0830	1587	1560.0	847.4	+2.1	1.5	1.0	0.5	6.2	93	+7	6.6	0	5.9	0	0	21	1	1	1	9	2	0	3	4	10	0		
	1130	"	1567.0	848.0	..	4.6	2.9	1.1	6.4	79	..	5.7	..	4.1	0	0	27	2	1	1	12	2	0	5	4	4	0		
Leh	0830	1730	"	1542.6	845.7	..	5.8	3.5	0.9	6.3	72	..	5.3	..	4.5	0	0	27	5	1	0	10	2	2	2	5	4	0	
	1730	"	3129.6	667.3	..	-13.4	-14.7	-19.9	1.0	54	..	4.8	..	3.1	0	0	14	2	12	0	0	0	0	0	0	16	0		
Skardu (R)	0830	3514	3157.4	668.7	+4.3	-11.5	-13.2	-20.1	1.1	51	-8	5.8	+0.4	0.7	0	0	3	1	2	0	0	0	0	0	28	0			
	1730	"	3142.3	667.3	..	-7.2	-8.7	-13.3	2.1	62	..	4.3	..	1.5	0	0	14	0	4	1	2	1	5	0	1	17	0		
Gilgit (R)	0830	1491																											
	1730	"																											
Misgar (R)	0830	3106																											
	1730	"																											
Jammu & Rajasthan (West) Sri Ganganagar	0830	"	177	1017.6	996.2	..	-9.3	8.2	6.8	10.1	85	..	1.5	..	0.8	0	0	7	1	1	3	1	0	0	0	1	24	0	
	0830	"	1019.0	997.7	..	9.1	8.0	6.8	9.7	85	+10	1.9	-1.3	0.3	0	0	3	0	0	2	0	0	1	0	0	28	0		
Churu	1130	"	1019.4	998.7	..	18.4	13.2	8.1	10.8	51	..	2.3	..	1.5	0	0	15	2	1	1	2	1	2	5	16	0			
	1730	"	1015.9	995.5	..	21.0	14.1	7.4	10.6	43	..	2.1	..	1.1	0	0	10	2	0	0	0	0	0	0	2	6	21	0	
Bikaner	0830	224	1019.4	992.3	+0.7	9.2	6.5	2.4	7.6	64	-1	1.3	-0.9	1.5	0	0	15	1	3	6	7	2	0	1	1	16	0		
	1730	"	1015.1	989.8	..	23.6	13.8	3.5	8.3	28	..	1.6	..	3.5	0	0	25	1	2	0	3	0	2	1	1	16	0		
Bikaner (P.B.D.)	0530	224	1017.5	990.5	..	9.1	7.4	5.0	8.8	76	..	1.7	..	1.9	0	0	9	1	3	0	1	0	1	0	3	22	0		
	1130	"	1018.9	993.0	..	20.4	14.4	8.9	11.5	49	..	1.7	..	5.5	0	0	27	1	11	1	6	4	1	3	0	4	0		
Jaisalmer	0830	2330	"	1018.2	991.6	..	13.8	10.5	6.6	10.1	64	..	2.1	..	4.5	0	0	15	6	6	1	0	0	0	2	16	0		
	1730	"	242	1018.7	989.9	..	11.3	8.3	4.8	8.8	60	..	1.1	..	5.4	0	0	14	1	8	0	0	1	2	0	1	17	0	
Phalodi	0830	234	1019.2	991.1	..	11.0	8.1	5.0	8.7	65	..	2.7	..	4.2	0	0	22	4	1	1	2	10	2	0	2	9	0		
	1730	"	1015.7	989.0	..	24.4	15.2	7.0	10.0	34	..	3.2	..	10.4	0	0	27	5	2	0	1	0	3	3	13	4	0		
Jodhpur	0230	224	1017.2	990.7	..	15.7	10.6	4.6	8.																				

TABLE III.—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JANUARY, 1958 (PAUSA 11—MAGHA 11, 1879 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Okta)	Wind speed (km. p.h.)	No. of observations																
			At station level			Departure from normal								Wind direction																
			2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26			
1																														
Rajasthan (West) (C.m.d.)	0530	194	1016.5	993.5	..	15.1	10.1	4.2	8.3	50	..	1.4	..	8.3	0	0	29	1	0	1	0	0	0	1	26	2	0			
	0830	"	1018.6	995.5	+1.1	14.5	10.0	4.7	8.7	53	+2	2.4	+0.3	7.0	0	0	30	2	0	0	1	0	1	3	23	1	0			
	1130	"	1018.7	996.3	..	22.5	14.3	5.7	10.0	36	..	1.6	..	7.4	0	0	31	6	11	3	2	1	1	2	5	0	0			
	1730	"	1014.8	992.7	..	25.8	15.6	5.5	9.1	29	..	1.9	..	7.9	0	0	30	4	4	2	3	1	2	3	11	1	0			
	2330	"	1017.3	994.6	..	18.2	11.7	4.5	8.9	41	..	1.3	..	7.9	0	0	26	0	0	0	0	0	0	2	3	21	5	0		
	0830	271	1019.7	936.9	..	19.8	9.3	8.2	10.5	85	..	2.8	..	1.2	0	0	9	0	2	0	2	1	1	2	1	22	0			
Alwar	1730	"	1015.1	984.3	..	22.1	14.9	8.4	11.2	43	..	2.6	..	5.0	0	0	17	2	6	0	3	2	0	0	1	14	3			
	0830	433	1019.1	967.9	..	10.9	9.0	6.9	10.1	80	..	2.6	..	2.2	0	0	23	0	1	4	14	3	0	0	1	8	0			
Sikar	1730	"	1015.6	966.9	..	22.1	16.6	11.9	14.3	55	..	2.7	..	2.7	0	0	27	3	3	2	0	2	2	8	7	4	0			
	0830	436	1019.4	968.4	+0.8	13.4	10.1	6.4	9.6	64	+8	2.3	+0.1	3.9	0	0	20	4	5	9	1	0	1	0	0	11	0			
Jaipur	1130	"	1018.3	968.8	..	22.1	13.9	5.6	9.7	35	..	2.0	..	6.8	0	0	30	2	2	5	5	6	6	1	3	1	0			
	1730	"	1015.2	965.8	..	22.5	14.3	6.3	10.3	36	..	2.4	..	3.5	0	0	25	4	1	4	2	1	3	4	6	6	0			
Jaipur (Sanganer Aerodrome)	0230	390	1017.3	971.4	..	12.8	9.7	6.1	9.6	64	..	0.9	..	..	0	1	22	3	8	11	1	0	0	0	0	8	0	
	0530	"	1017.4	971.2	..	11.1	8.7	5.5	9.2	71	..	1.4	..	..	0	0	21	3	5	8	0	0	0	0	5	10	0	
	0830	"	1018.9	973.1	..	13.3	10.1	6.3	9.6	63	..	2.4	..	..	0	1	19	4	2	11	1	0	0	0	2	11	0	
	1130	"	1018.4	973.7	..	20.7	13.6	6.3	9.5	41	..	2.3	..	..	0	1	26	1	3	8	5	3	4	0	3	4	0	
	1730	"	1015.1	970.6	..	22.3	14.1	5.7	9.2	36	..	2.4	..	..	0	1	23	2	0	4	2	1	3	3	9	7	0	
	2330	"	1017.8	972.1	..	14.2	10.2	5.8	9.6	57	..	0.5 (m.)	..	..	0	1	21	5	7	10	0	5	0	0	0	9	0	
Dholpur	0830	176	1019.0	998.0	..	13.7	11.7	9.9	11.0	78	..	2.2	..	3.7	0	1	15	0	0	0	0	1	1	2	12	2	0			
	1730	"	1015.0	994.7	..	22.7	15.7	11.2	12.9	49	..	2.3	..	5.1	0	9	18	5	1	0	2	0	1	1	8	10	0			
Ajmer	0830	486	1019.8	962.7	+0.8	11.4	8.7	5.8	9.2	69	+13	3.0	+1.1	2.1	0	0	20	4	3	1	2	0	0	4	6	11	0			
	1730	"	1014.7	960.0	..	23.0	13.3	4.4	7.2	30	..	2.7	..	7.6	0	0	28	3	1	1	4	4	3	7	5	3	0			
Kotah	0530	257	1017.0	986.5	..	13.0	10.7	8.1	11.0	73	..	1.3	..	0.2	0	0	2	0	0	0	0	0	0	1	0	0	30	0		
	0830	"	1018.9	988.6	+0.6	14.1	11.2	8.1	11.0	68	+11	2.5	+0.7	0.1	0	0	1	0	0	0	0	0	0	1	0	0	23	0		
Chambal	1130	"	1018.2	988.8	..	22.8	15.2	8.2	11.3	41	..	1.8	..	1.0	0	0	8	1	1	2	2	0	0	1	1	25	0			
	1730	"	1014.6	985.4	..	24.9	16.0	7.9	11.1	36	..	2.3	..	1.2	0	0	6	1	0	0	0	0	0	0	0	5	27	0		
Jhelawar	2330	"	1017.2	987.2	..	16.7	12.7	8.7	11.6	61	..	0.9	..	0.5	0	0	4	1	0	0	0	0	0	1	2	0	25	0		
	0830	351	1018.8	977.5	..	13.8	11.1	8.3	11.0	72	..	1.9	..	1.1	0	0	6	1	0	2	1	0	0	0	0	2	0	25	0	
Udaipur	1730	"	1014.3	974.9	..	24.7	15.7	7.2	10.8	34	..	2.2	..	7.1	0	1	30	5	8	2	2	0	0	0	0	1	22	0		
	0830	321	1019.0	981.2	+1.0	13.4	10.4	6.8	10.1	66	+8	1.6	-0.1	1.3	0	0	9	2	1	1	4	0	0	0	0	0	31	0		
Etahura (Jawai Dam)	0230	582	1018.2	950.3	..	11.4	9.9	8.4	11.4	82	..	1.1	..	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	0	
	0530	"	1018.4	950.2	..	10.0	8.9	7.9	10.5	87	..	1.4	..	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	0	
	0830	"	1019.7	952.2	+1.8	13.3	10.6	7.9	10.5	72	+18	1.5	+0.1	0.5	0	0	5	2	0	0	0	0	0	0	0	0	3	14	0	
	1130	"	1018.0	952.5	..	22.5	15.1	9.1	11.3	44	..	1.8	..	2.7	0	0	17	1	3	4	3	0	0	0	0	0	2	15	0	
	1730	"	1014.3	949.3	..	23.6	16.0	9.9	12.2	44	..	2.2	..	2.7	0	0	16	1	2	4	1	0	0	0	0	0	1	0	29	0
	2330	"	1018.8	951.2	..	12.9	11.0	9.1	11.4	79	..	1.2	..	0.3	0	0	2	0	0	0	0	0	0	0	0	0	0	14	0	
Madhya Pradesh (West) Gwalior (P.B.O.)	0830	295	1018.6	983.8	..	14.6	11.9	9.3	11.5	71	..	2.5	..	4.5	0	0	17	0	0	1	2	12	2	0	0	0	4	2	10	0
	1730	"	1014.2	980.9	..	25.2	17.7	12.1	13.9	44	..	2.0	..	4.0	0	0	21	12	2	0	1	0	0	0	0	4	2	10	0	
Sheopur Kalan	0230	210	1017.0	992.0	..	11.8	10.1	8.3	11.0	79	..	1.1	..	1.1	0	0	6	2	0	0	0	0	0	0	0	2	0	25	0	
	0530	"	1017.1	992.1	..	10.7	9.1	7.4	10.2	80	..	0.7	..	1.6	0	0	8	1	0	0	1	0	0	1	0	0	5	23	0	
Guna	0830	"	1018.3	994.0	+0.8	13.7	10.9																							

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JANUARY, 1958 (PAUSA 11—MAGNA 11, 1879 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs.			Relative humidity %			Cloud amount (Oktas)		Wind speed (km. p.h.)		No. of observations											
			At mean sea level or height in g.p.m. of nearest isobaric level			At station level			Departure from normal			Departure from normal			Mean amount		Departure from normal		Mean wind speed km. per hour		Wind direction									
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (West) —(Contd.) Ratlam—(contd.)	1730	486	1013.3	959.3	..	26.6	15.6	5.6	9.4	28	..	2.2	..	5.3	0	1	19	0	5	2	0	0	5	4	4	11	0	0		
Alirajpur	0830	293	1018.8	984.4	..	14.3	10.8	6.9	10.1	61	..	2.3	..	1.9	0	0	15	0	0	9	2	1	2	1	0	16	0	0		
Indore	1730	"	1013.4	980.7	..	27.9	15.8	3.1	8.2	22	..	1.8	..	7.8	0	0	29	2	2	8	1	0	3	8	5	2	0	0		
	0530	567	1016.7	950.9	..	12.6	8.9	4.6	8.8	60	..	1.7	..	5.3	0	0	27	2	3	4	5	6	4	2	1	4	0	0		
	0830	"	1018.8	953.3	+1.2	14.6	10.2	5.3	9.2	56	74	2.7	+1.0	3.6	0	0	23	1	3	6	1	6	3	2	1	8	0	0		
	1130	"	1016.8	953.3	..	23.8	14.4	5.7	9.5	33	..	2.3	..	7.6	0	0	29	2	5	9	5	2	3	2	1	2	0	0		
	1730	"	1012.9	950.1	..	25.9	14.7	4.0	8.4	27	..	2.5	..	8.5	0	1	29	4	4	3	3	2	3	5	6	1	0	0		
Bhopal (Bairagarh)	2330	"	1017.2	952.2	..	16.4	10.8	4.8	8.5	48	..	1.6	..	6.0	0	0	29	3	5	5	1	4	3	3	5	2	0	0		
	0230	523	1016.4	956.1	..	14.8	10.1	3.0	8.9	53	..	1.7	..	3.8	0	0	18	5	8	2	2	0	0	0	1	13	0	0		
	0530	"	1016.6	956.0	..	13.7	9.5	4.9	8.9	57	..	1.5	..	4.5	0	0	16	3	7	3	3	0	0	0	0	15	0	0		
	0830	"	1018.7	958.3	+0.7	15.5	10.6	5.5	9.2	53	+2	2.4	+0.6	4.6	0	0	16	3	7	3	3	0	0	0	0	0	15	0	0	
	1130	"	1016.9	958.2	..	23.8	14.3	5.9	9.5	33	..	1.9	..	8.0	0	1	27	1	5	4	8	4	4	1	1	3	0	0		
	1730	"	1013.4	955.3	..	25.3	14.4	3.9	8.6	26	..	2.2	..	8.9	0	0	26	5	5	0	1	0	4	4	7	5	0	0		
	2330	"	1017.2	957.1	..	16.4	10.7	4.7	8.8	48	..	1.1	..	4.2	0	0	17	4	8	1	0	1	1	0	2	14	0	0		
Khandwa	0830	318	1017.9	980.9	+1.0	16.3	11.1	5.7	9.2	49	-7	2.7	+1.3	1.8	0	0	8	1	3	1	0	0	1	0	2	23	0	0		
	1730	"	1013.0	977.5	..	28.5	16.2	5.1	8.4	23	..	2.6	..	7.3	0	0	30	3	6	0	4	0	0	0	2	15	1	0		
Hoshangabad	0830	302	1018.6	983.4	+0.9	16.0	11.9	7.4	10.6	58	+2	2.6	+0.9	1.2	0	0	10	1	0	4	4	1	0	0	0	21	0	0		
	1730	"	1013.7	979.8	..	27.1	18.1	10.4	11.9	39	..	2.5	..	0.5	0	0	4	1	0	0	1	0	0	0	2	0	27	0		
Betul	0830	653	1018.7	944.3	..	16.3	11.4	6.5	10.0	56	..	2.9	..	2.9	0	0	23	1	2	13	6	1	0	0	0	8	0	0		
	1730	"	1012.8	940.8	..	25.2	14.6	4.9	9.0	28	..	2.8	..	6.6	0	0	29	7	6	0	2	1	5	5	3	2	0			
Chhindwara	0830	685	1019.3	940.5	..	13.6	10.2	6.7	10.1	64	..	3.1	..	2.1	0	0	13	2	4	1	0	0	0	1	5	18	0			
	1730	"	1013.2	937.6	..	24.3	14.4	5.2	9.3	30	..	3.0	..	5.6	0	0	30	3	3	3	3	1	7	4	6	1	0			
Seoni	0830	619	1018.3	947.8	+1.4	17.0	12.8	8.9	11.7	60	-1	3.0	+1.4	0.7	0	0	7	1	4	0	0	2	0	0	0	24	0	0		
	1730	"	1012.9	944.6	..	24.4	15.6	8.7	8.9	38	..	2.8	..	1.8	0	0	17	3	2	1	1	3	4	2	1	14	0	0		
Sagar	0830	551	1018.3	955.1	+1.1	16.8	11.4	6.2	9.6	51	+1	2.8	+1.0	5.0	0	0	28	1	6	8	2	2	4	4	1	3	0	0		
	1730	"	1013.5	952.1	..	24.6	14.3	5.2	8.9	29	..	2.2	..	6.1	0	0	31	0	3	3	0	0	3	9	13	0	0			
Nowrangpur	0830	229	1019.5	992.2	+1.1	11.7	10.1	8.1	10.9	80	+4	2.0	-0.2	0.9	0	0	9	0	1	1	0	3	4	0	0	22	0	0		
	1730	"	1015.1	989.0	..	24.0	16.0	8.9	11.0	40	..	2.0	..	2.3	0	0	16	1	6	0	0	0	1	1	7	15	0	0		
Madhya Pradesh (East) Sutna	0530	317	1016.9	979.3	..	11.6	9.2	6.3	9.8	71	..	2.3	..	1.4	0	0	9	3	1	3	1	0	0	1	0	22	0	0		
	0830	"	1018.8	981.5	+0.8	14.8	11.0	6.9	10.4	60	-8	3.2	+0.2	2.5	0	0	21	0	0	6	1	5	4	5	0	10	0	0		
	1130	"	1017.5	981.3	..	23.2	15.0	7.2	11.4	37	..	3.0	..	5.8	0	0	28	0	1	3	4	3	7	6	4	3	0			
	1730	"	1014.4	978.3	..	24.3	15.3	6.6	9.4	33	..	2.6	..	2.6	0	0	21	3	1	1	1	0	2	2	11	10	0			
Umaria	2330	"	1017.4	980.2	..	15.2	11.3	7.2	10.3	60	..	1.1	..	1.8	0	0	16	3	2	3	0	1	1	1	1	5	15	0		
	0830	459	1019.0	965.7	..	15.0	11.4	8.2	10.9	65	-3	2.9	+0.4	1.0	0	0	5	0	2	0	0	2	0	0	0	1	26	0		
	1730	"	1014.1	962.5	..	23.5	15.9	10.1	12.5	44	..	2.3	..	3.6	0	0	22	0	6	2	2	0	0	5	4	5	9	0		
Jabalpur	0530	393	1016.9	970.7	..	11.9	10.2	8.3	11.0	79	..	1.8	..	1.6	0	0	14	2	1	1	7	3	0	0	0	17	0	0		
	0830	"	1019.1	973.2	+1.5	14.7	11.7	8.6	11.3	68	-3	2.7	+0.9	2.9	0	0	26	1	2	1	14	5	2	0	1	5	0	0		
	1130	"	1017.2	972.7	..	23.5	15.8	9.1	11.8	42	..	2.5	..	4.3	0	0	26	5	5	1	4	9	1	1	0	5	0	0		
	1730	"	1013.8	969.7	..	25.1	16.9	10.0	12.7	40	..	2.5	..	3.1	0	0	20	6	3	0	3	2	3	2	1	11	0	0		
Mandla	2330	"	1017.3	971.5	..	15.0	12.3	9.7	12.2	73	..	1.5	..	2.5	0	0	18	0	6	0</										

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JANUARY, 1958 (PAUSAII—MAGHA 11, 1879 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres.	Mean pressure in millibars.			Mean temperature in °C.	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount Octas)	Wind speed (km. p.h.)	No. of observations																
			At mean sea level	At height in mm. or height in ft. of nearest standard baric level	At station level								Departure from normal,	Dry bulb	Wet bulb	Departure from normal,	N	NE	E	SE	S	SW	W	NW	Calm	Variable			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
Madhya Pradesh (East) —(Contd.)	Kankotri . . .	0830	402	1018.3	972.1	+1.1	18.6	14.5	10.9	13.2	62	-9	1.5	-0.3	0	0	0	0	0	0	0	0	0	0	0	0	31	0	
		1730	"	1013.2	968.5	..	26.9	17.6	9.8	12.5	35	..	2.4	..	0.4	0	0	4	0	0	0	0	0	1	3	0	27	0	
Jagdalpur (P.B.O.)		0530	553	1017.0	953.0	..	12.9	11.6	10.4	12.4	85	..	1.3	..	0.6	0	0	5	0	0	0	0	0	0	0	0	2	26	0
		0830	"	1018.6	955.4	+1.3	16.5	13.4	10.9	13.1	70	-8	2.3	+0.4	0.9	0	0	7	1	0	3	1	1	0	0	1	0	24	0
Gujarat Deesa . . .		1130	"	1015.9	954.6	..	25.7	16.8	10.2	11.8	38	..	2.3	..	4.6	0	0	25	3	5	4	3	2	0	2	6	6	0	
		1730	"	1013.2	952.2	..	26.4	17.1	10.8	13.2	40	..	3.2	..	3.4	0	1	20	3	3	2	3	5	3	1	1	10	0	
Gujarat Deesa . . .		2330	"	1016.9	953.7	..	16.9	13.5	11.3	13.2	70	..	1.4	..	1.1	0	0	8	0	1	3	0	2	0	1	1	23	0	
		0830	136	1018.2	1002.0	+1.2	13.7	10.5	6.9	10.2	65	..	2.3	..	5.0	0	0	29	8	14	6	1	0	0	0	0	2	0	
Idar . . .		1730	"	1014.1	998.7	..	27.6	16.8	7.2	10.4	29	..	1.9	..	7.9	0	0	28	6	6	0	1	1	1	3	10	3	0	
		0830	219	1017.6	992.1	..	19.1	13.8	8.8	11.5	52	..	1.9	..	5.4	0	0	26	4	11	5	1	0	1	2	2	5	0	
Ahmedabad . . .		0230	55	1015.4	1009.0	..	17.4	12.8	8.2	11.1	56	..	1.3	..	7.7	0	1	28	7	10	4	1	0	1	0	6	2	0	
		0530	"	1015.3	1008.8	..	15.5	11.7	7.8	10.6	61	..	1.0	..	8.0	0	0	28	3	10	6	3	0	0	1	5	3	0	
Dohad . . .		0830	"	1017.4	1010.9	+0.6	16.9	12.4	7.7	10.9	56	+3	2.0	+0.7	9.0	0	0	28	4	11	8	0	0	0	0	5	3	0	
		1130	"	1017.8	1011.5	..	25.8	16.8	9.0	11.9	36	..	1.7	..	14.5	0	7	24	3	4	13	3	0	0	0	8	0	0	
Dohad . . .		1730	"	1013.8	1007.6	..	29.0	17.9	8.6	11.5	29	..	1.9	..	12.4	0	1	30	6	3	5	3	0	1	5	8	0	0	
		2330	"	1016.1	1009.7	..	19.0	13.8	8.8	11.5	52	..	1.4	..	7.1	0	0	29	10	7	3	1	0	0	0	8	2	0	
Baroda . . .		0830	333	1017.8	979.0	..	16.0	11.3	6.2	9.6	53	-8	1.5	0	5.2	0	0	27	0	2	11	6	6	1	1	0	4	0	
		1730	"	1013.8	976.6	..	27.7	15.9	4.1	8.6	24	..	1.1	..	9.8	0	1	29	0	0	4	2	2	16	5	1	1	0	
Baroda . . .		0530	35	1015.1	1010.9	..	13.7	11.5	9.3	11.7	75	..	1.4	..	1.8	0	0	14	0	9	4	1	0	0	0	0	17	0	
		0830	"	1017.2	1013.0	..	14.8	12.0	9.3	11.8	69	+11	1.9	+0.9	1.6	0	0	14	1	7	3	1	0	0	1	1	17	0	
Baroda (Aerodrome)		1130	"	1017.5	1013.5	..	27.5	17.4	8.7	11.7	32	..	1.6	..	4.1	0	0	25	1	13	5	4	1	0	0	1	6	0	
		1730	"	1013.5	1009.5	..	29.5	19.1	11.1	13.6	33	..	1.4	..	4.3	0	0	26	4	8	3	0	0	0	0	3	8	5	0
Baroda (Aerodrome)		2330	"	1015.9	1011.8	..	18.1	14.0	10.2	12.7	61	..	1.3	..	2.5	0	0	20	4	12	2	0	0	0	0	2	11	0	
		0830	38	1017.4	1012.9	..	16.9	12.6	8.3	11.0	57	..	1.9	..	3.4	0	0	18	7	4	1	2	1	0	0	3	13	0	
Saurashtra & Kutch Bhuj (P.B.O.)		1130	"	1017.7	1013.4	..	27.2	17.5	9.0	12.1	34	..	1.6	..	6.3	0	0	26	7	5	6	4	1	0	1	2	5	0	
		1730	"	1013.8	1009.5	..	29.6	18.5	8.9	12.3	30	..	1.7	..	7.5	0	1	28	6	4	3	1	0	0	0	17	0		
Broach . . .		0830	17	1016.8	1014.7	..	16.3	12.4	8.5	11.2	61	..	2.5	..	4.2	0	0	29	2	10	4	6	1	1	2	3	2	0	
		1730	"	1013.0	1011.0	..	31.6	18.7	8.0	11.1	24	..	1.3	..	6.7	0	0	30	1	8	2	6	0	5	1	7	1	0	
Surat . . .		0530	12	1014.6	1013.2	..	17.8	13.6	9.3	12.2	59	..	1.5	..	6.2	0	0	28	14	10	3	1	0	0	0	0	3	0	
		0830	"	1016.9	1015.5	+1.3	18.6	14.2	10.1	12.6	60	+1	1.8	+0.6	4.5	0	0	25	4	9	8	2	0	0	0	2	6	0	
Saurashtra & Kutch Bhuj (P.B.O.)		1130	"	1017.0	1015.6	..	28.7	18.0	9.2	12.0	31	..	2.4	..	8.8	0	0	28	7	9	12	0	0	0	0	0	3	0	
		1730	"	1013.1	1011.8	..	30.5	19.4	11.1	13.5	32	..	2.0	..	8.3	0	0	29	2	3	1	0	0	1	1	17	2	0	
Bhuj (Aerodrome)		2330	"	1015.4	1014.0	..	21.3	15.8	10.9	13.4	53	..	1.2	..	6.3	0	0	29	16	5	2	1	0	1	1	3	2	0	
		0230	106	1016.5	1004.0	..	16.4	12.3	8.0	10.9	59	..	1.3	..	1.8	0	0	11	4	1	1	0	2	2	1	0	20	0	
Kandla . . .		0530	"	1016.3	1003.8	..	14.8	11.4	7.7	10.9	63	..	1.3	..	2.8	0	0	17	2	1	0	0	10	2	1	1	14	0	
		0830	"	1018.1	1005.6	+1.1	15.5	11.5	7.0	10.4	57	+11	1.6	+0.3	2.8	0	0	22	3	3	1	0	6	8	0	1	9	0	
Dwarka . . .		1130	"	1018.3	1006.2	..	24.3	15.0	5.5	9.6	33	..	1.4	..	8.2	0	0	29	9	10	4	1	1	0	2	2	0		
		1730	"	1014.6	1002.6	..	27.5	16.3	5.5	9.5	26	..	1.8	..	8.6	0	1	28	12	8	3	0	0	0	1	5	2	0	
Bhuj (Aerodrome)		2330	"	1017.1	1004.7	..	18.5	13.2	8.1	10.9	51	..	1.1	..	3.5	0	0	21	1	2	0	0	0	8	5	2	3	10	0
		0830	80	1018.0	1008.4	..	15.4	11.8	7.7	10.9	62	..	1.5	..	4.2	0	0	20	1	2	0	0	0	5	7	3	2	11	0
Kandla . . .		1130	"	1018.5	1009.1	..	24.0	15.4	6.4	10.5	37	..	1.4	..	12.2	0	6	22	9	6	4	3	1	0	2	2	3	1	
		1730	"	1014.6	1005.4	..	27.5	16.7	5.6	10.2	28	..	1.6	..	13.4	0	5	25	13	6	2	2	0	0	1	5	1	1	
Mandvi . . .		0830	9	1017.3	1016.8	..	17.8	14.5	11.0	13.9	68	..	1.9	..	13.8	0	0	31	13	15	1	0	0	0	0	2	0		

TABLE III.—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JANUARY, 1958 (PAUSA 11—MAGHA 11, 1879 SAKA)

Division and station	Hour of observation I.S.T.		Mean pressure in millibars	Mean temperature in °C			Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Octas)	Wind speed (km. p.h.)	No. of observations												Wind direction											
	1	2		4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	Wind direction						
				At mean sea level or height in gm. of nearest standard isobaric level	At station level	Departure from normal	Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Mean amount	Departure from normal	62 or more	Mean wind speed, km. per hour																			
Saurashtra & Kutch <i>(contd.)</i>																																			
Rajkot (Aerodrome)	1730	134	1013.7	998.7	..	29.0	18.1	9.1	11.9	30	..	0.8	..	16.2	0	8	23	5	9	2	1	0	0	3	11	0	0	0	0	0					
Surendranagar	0830	74	1017.3	1008.6	..	17.0	14.3	11.7	14.1	72	..	1.7	..	4.2	0	0	24	2	7	0	0	0	0	0	15	7	0	0	0	0					
Bhavnagar	1730	..	1013.8	1005.4	..	29.2	22.7	19.0	22.4	55	..	1.6	..	6.7	0	0	28	3	7	1	2	0	0	0	2	13	3	0	0	0	0				
Bhavnagar (Aerodrome)	0830	17	1017.7	1015.7	+1.4	16.5	12.2	7.7	10.7	56	+10	1.3	-0.1	2.2	0	0	22	0	0	0	0	0	0	0	11	4	7	9	0	0					
Mahuva	1730	..	1014.1	1012.2	..	29.2	18.6	9.9	12.9	31	..	1.6	..	4.1	0	0	27	0	8	16	1	0	0	0	0	2	4	0	0	0	0				
Keshod	0830	51	1017.3	1011.3	..	19.2	13.9	9.2	11.6	55	..	2.1	..	13.9	0	3	24	2	1	0	0	0	0	0	8	13	7	0	0	0					
Veraval	0230	8	1015.0	1014.1	..	18.6	14.8	11.4	13.8	65	..	0.8	..	7.9	0	0	28	19	8	0	0	0	0	0	1	3	0	0	0	0					
	0530	..	1014.6	1013.7	..	17.6	13.8	10.0	12.9	63	..	1.0	..	9.3	0	1	27	14	13	1	0	0	0	0	0	3	0	0	0	0	0				
	0830	..	1016.7	1015.8	+0.8	19.1	14.2	9.4	12.3	56	+6	1.9	+0.8	11.0	0	1	29	13	16	1	0	0	0	0	0	1	0	0	0	0	0				
	1130	..	1017.2	1016.3	..	28.2	18.6	10.7	13.6	37	..	1.8	..	12.2	0	3	25	6	6	7	1	2	0	0	3	3	3	0	0	0	0				
	1730	..	1013.7	1012.8	..	26.3	21.5	18.8	21.8	64	..	1.6	..	15.3	0	9	22	2	0	0	3	3	5	13	5	0	0	0	0	0					
Konkan	2330	..	1015.9	1015.0	..	20.1	16.4	13.4	15.8	67	..	0.9	..	6.5	0	0	24	17	4	1	0	0	0	0	2	7	0	0	0	0	0				
Dahanu	0830	5	1015.8	1015.3	+1.6	20.0	16.0	12.6	15.0	63	-14	1.0	-0.8	8.0	0	0	30	1	3	15	11	0	0	0	0	1	0	0	0	0	0				
Bombay (Colaba)	1730	..	1013.0	1012.5	..	26.1	21.9	19.3	23.0	68	..	1.9	..	15.8	0	2	29	29	0	0	1	0	0	0	0	0	0	0	0	0	0				
Bombay (Santa Cruz Aerodrome)	0830	11	1015.8	1014.6	+0.9	22.2	19.0	16.9	19.3	72	+2	1.9	+0.6	6.8	0	0	31	4	17	9	1	0	0	0	0	1	0	0	0	0	0				
	1130	..	1016.1	1014.9	..	27.9	21.4	17.5	20.1	54	..	1.6	..	7.9	0	0	31	2	10	16	2	0	0	0	0	1	0	0	0	0	0				
	1730	..	1012.9	1011.7	..	27.1	22.4	19.8	23.2	65	..	2.1	..	12.5	0	1	29	9	0	0	0	0	0	0	0	2	19	1	0	0	0				
	0230	8	1014.1	1013.2	..	19.9	16.4	14.3	15.8	69	..	1.2	..	1.2	0	0	7	0	2	2	2	0	0	0	0	1	24	0	0	0	0				
	0530	..	1013.9	1013.0	..	19.4	15.6	12.1	14.5	66	..	1.2	..	2.6	0	0	11	3	5	3	0	0	0	0	0	0	0	0	0	0	0	0			
	0830	..	1016.1	1015.2	+1.2	21.4	16.3	12.0	14.5	57	-8	1.8	+0.5	2.7	0	0	9	0	2	7	0	0	0	0	0	0	0	0	0	0	0				
	1130	..	1016.4	1015.5	..	29.5	19.0	11.2	13.5	33	..	1.6	..	7.9	0	0	24	2	5	8	6	0	0	0	0	3	7	0	0	0	0				
	1730	..	1013.1	1012.2	..	28.6	20.2	14.8	16.9	43	..	2.4	..	16.1	0	8	23	6	1	1	0	0	0	0	0	2	21	0	0	0	0				
	2330	..	1015.2	1014.3	..	21.7	17.7	14.5	17.1	65	..	1.2	..	1.3	0	0	9	4	1	0	0	1	0	0	0	3	22	0	0	0	0				
Alibag	0830	7	1015.7	1014.9	+1.0	21.9	17.5	14.3	16.4	63	-2	2.3	+0.8	4.8	0	0	27	6	11	9	1	0	0	0	0	4	0	0	0	0	0				
Harnai	0830	20	1014.8	1012.5	+1.3	24.8	19.1	15.4	17.4	58	-9	2.0	..	11.4	0	5	26	5	10	11	3	2	0	0	0	0	0	0	0	0	0	0			
Ratnagiri	1730	..	1012.0	1009.7	..	27.3	23.4	21.5	25.6	71	..	1.9	..	21.4	0	16	15	7	0	0	0	0	1	0	0	0	0	0	0	0	0	0			
Devgad	0330	36	1015.4	1011.2	+1.6	23.4	19.7	17.1	20.1	69	-2	3.5	+2.1	10.6	0	0	31	2	8	20	1	0	0	0	0	0	0	0	0	0	0				
Vengurla	0230	9	1013.3	1012.3	..	21.1	18.9	17.7	20.0	81	..	1.1	..	1.9	0	0	14	13	1	0	0	0	0	0	0	0	0	0	0	0	0				
	0330	..	1013.2	1012.2	..	20.1	18.0	16.5	19.0	82	..	0.7	..	3.1	0	1	16	11	4	1	0	0	0	0	0	0	0	1	14	0	0				
	0830	..	1015.4	1014.4	..	21.6	18.3	15.8	18.3	72	..	1.7	..	3.5	0	1	18	15	3	1	0	0	0	0	0	0	0	0	0	0	0				
	1130	..	1015.5	1014.5	..	30.6	20.3	13.2	15.4	36	..	1.3	..	8.3	0	3	23	4	2	8	6	1	4	0	1	5	0	0	0	0	0				
	1730	..	1012.1	1011.1	..	29.4	22.6	18.8	22.0	53	..	2.1	..	7.5	0	0	30	0	0	1	0	0	0	0	0	12	11	6	1	0	0				
	2330	..	1014.4	1013.4	..	22.9	20.3	18.6	21.7	78	..	0.8	..	3.5	0	0	19	19	0	0	0	0	0	0	0	0	0	0	0	0	0				
Maharashtra	0830	206	1017.2	993.4	..	21.6	13.9	6.8	9.7	39	..	2.9	..	5.1	0	0	28	1	4	13	2	1	3	2	2	3	0	0	0	0	0	0			
Nandurbar	1730	..	1012.9	989.9	..	30.0	17.4	6.1	9.7	22	..	3.1	..	4.6	0	0	29	1	9	5	2	0	2	6	4	2	0	0	0	0	0				
Jalgaon	0830	201	1017.9	994.3	..	16.3	10.5	3.6	8.1	43	..	2.3	..	8.7	0	1	27	0	1	11	8	2	2	3	1	3	0	0	0	0	0				
Malegaon	1730	..	1012.8	990.3	..	30.3	16.6	2.4	7.7	18	..	2.0	..	8.7	0	0	30	1	4	8	2	2	7	4	1	0	0	0	0	0					
Deolali	0830	437	1018.3	967.6	+1.4	16.3	11.2	6.1	9.2	49	-3	2.0	+0.6	2.0	0	0	19	1	0	0	0	0	0	0	1	11	6	12	0	0	0				
	1730	..	1012.3	964.1	..	28.9	16.6	5.9	8.9	22	..	2.8	..	5.5	0	1	25	3	7	4	0	3	3	2	4	5	0	0	0	0	0	0			
Au angabad.	0830	571	1018.9	953.0	..	14.																													

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JANUARY, 1958 • (PAUSAII—MAGHA II, 1879 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cu. m. above mean sea level in metres	Mean pressure in millibars.		Mean temperature in °C.			Vapour pressure in mb	Relative humidity %	Cloud amount (Oktas)	Wind speed (km. p.h.)	No. of observations																	
			At station level	At mean sea level or height in gm. or nearest standard isobaric level	Dry bulb	Wet bulb	Dew point					Mean amount	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	Variable						
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28		
1																													
Maharashtra—Contd. Aurangabad (Chikalthana Aerodrome) —(contd.) Ahmednagar	2330	579	1016.7	950.4	..	15.9	11.6	7.5	10.5	59	..	0.8	..	2.0	0	0	8	1	0	0	2	0	0	3	2	23	0		
	0830	657	1017.5	943.1	+1.2	17.9	13.6	10.1	12.4	61	+14	1.7	+0.4	3.2	0	0	25	0	0	0	9	0	1	0	15	6	0		
	1730	"	1011.3	939.9	..	28.5	20.0	14.9	17.1	44	..	1.5	..	2.8	0	0	26	0	6	0	7	0	2	0	11	5	0		
Parbhani	0830	423	1018.3	969.6	..	18.4	12.5	6.5	9.7	46	..	2.5	..	3.0	0	0	23	1	4	4	..	1	3	2	5	8	0		
	1730	"	1012.6	965.8	..	28.7	17.3	7.2	10.5	27	..	2.9	..	4.3	0	0	24	3	8	2	3	2	1	4	1	7	0		
Poona	0530	559	1015.9	951.4	..	14.3	12.3	10.7	12.9	79	..	1.1	..	0.2	0	0	1	0	0	0	0	1	0	0	0	0	30	0	
	0830	"	1018.0	953.8	+1.4	15.9	13.1	10.7	13.1	72	+9	1.6	+0.2	(a) 0.3	0	0	3	1	0	0	1	1	0	0	0	0	0	17	0
	1130	"	1015.5	953.6	..	26.3	16.3	8.4	11.3	33	..	1.6	..	3.4	0	0	14	2	4	3	5	0	0	0	0	0	4	3	0
Poona (Lohagaoon Aerodrome)	1730	"	1011.1	949.9	..	28.5	17.4	9.2	11.8	31	..	2.3	..	0.3	0	0	16	2	5	2	0	0	0	0	0	4	3	15	0
	2330	"	1015.9	952.3	..	18.5	14.2	10.8	13.1	61	..	0.7	..	0.2	0	0	1	0	0	0	1	0	0	0	0	0	30	0	
	0230	593	1015.3	947.7	..	17.2	12.5	8.2	11.1	58	..	1.6	..	1.6	0	0	9	1	2	2	0	0	0	0	3	4	21	0	
Baramati	0530	"	1015.7	947.7	..	15.5	11.8	8.1	11.2	63	..	1.9	..	1.5	0	0	16	0	1	5	3	1	0	4	2	15	0		
	0830	"	1017.7	950.0	..	17.3	12.5	7.8	11.0	55	..	2.5	..	2.8	0	0	25	1	0	14	9	1	0	2	1	3	0	0	
	1130	"	1015.5	949.9	..	26.2	15.6	6.3	10.1	30	..	2.0	..	9.8	0	3	25	1	0	8	5	1	0	9	3	4	0	0	
Jejur	1730	"	1011.1	946.2	..	28.5	16.2	5.7	9.5	25	..	2.8	..	9.5	0	3	24	1	0	5	0	0	1	9	7	8	0		
	2330	"	1015.7	948.7	..	19.6	13.1	7.1	10.3	47	..	1.7	..	4.5	0	0	23	1	0	5	0	0	0	1	11	7	0		
	0830	551	1017.9	954.8	..	16.7	12.2	8.1	11.0	58	..	2.1	..	4.9	0	0	24	4	2	3	3	0	0	1	11	7	0		
Sholapur	1730	"	1011.1	950.9	..	29.4	18.1	9.9	12.4	30	..	1.9	..	7.3	0	1	28	0	1	6	11	4	2	4	1	2	0		
	0830	521	1017.3	957.6	..	17.1	11.9	7.3	10.2	53	..	2.1	..	1.6	0	0	14	1	4	3	0	0	0	2	4	17	0		
	1730	"	1010.8	953.9	..	29.8	17.8	8.7	11.7	28	..	2.0	..	3.5	0	0	30	0	6	9	4	0	0	2	7	2	1	0	
Mihaj	0530	479	1015.2	960.5	..	18.1	13.2	9.2	11.6	57	..	1.7	..	8.5	0	0	27	3	9	7	7	0	0	0	1	4	0	0	
	0830	"	1017.2	962.7	+1.3	19.8	14.3	9.7	12.4	53	+5	2.5	+1.2	5.9	0	0	26	0	6	2	14	0	1	0	3	5	0	0	
	1130	"	1015.9	962.8	..	27.3	18.4	12.5	14.7	41	..	1.7	..	12.8	0	1	30	2	2	1	15	5	6	0	0	0	0	0	
Kothapur	1730	"	1011.1	958.7	..	29.9	18.6	10.8	13.0	31	..	2.8	..	8.5	0	0	31	1	12	0	16	1	1	0	0	0	0	0	
	0830	554	1017.0	954.1	+0.9	18.4	13.9	10.2	12.7	59	0	2.1	+0.4	4.3	0	0	19	1	6	7	2	0	0	1	2	12	0		
	1730	"	1010.3	950.0	..	29.6	19.5	12.9	15.3	37	..	3.2	..	9.9	0	3	25	1	8	11	5	0	2	1	0	3	0		
Vidarbha	0530	570	1014.8	949.8	..	16.8	13.2	10.1	12.6	65	..	0.8	..	5.7	0	0	27	1	5	4	1	1	11	2	4	0	0		
	0830	"	1017.0	952.3	+1.3	19.1	14.0	9.8	12.3	56	-6	1.9	+0.7	4.4	0	0	23	1	8	12	1	0	0	1	1	8	0		
	1130	"	1015.0	952.1	..	27.1	17.3	10.2	12.7	35	..	1.8	..	15.6	0	6	25	0	9	14	7	0	0	1	0	0	0		
Akola	1730	"	1010.4	948.3	..	29.5	17.7	9.1	11.6	28	..	2.4	..	11.3	0	2	29	0	7	13	2	1	2	4	0	0	0		
	0830	650	1016.9	913.6	..	19.3	12.5	5.7	9.6	43	..	2.1	..	2.6	0	0	22	0	2	3	2	4	1	1	5	4	11	0	
	1730	"	1012.0	940.8	..	26.8	15.7	6.2	9.7	28	..	2.6	..	1.8	0	0	17	0	0	0	2	0	1	0	7	14	0		
Aksa (Aerodrome)	0530	309	1015.2	979.1	..	15.8	10.9	5.1	9.1	50	..	1.7	..	2.6	0	0	21	0	3	6	8	2	0	1	1	10	0		
	2330	"	1015.4	979.7	..	20.7	13.1	5.4	9.0	38	..	1.7	..	3.1	0	0	21	0	3	6	8	2	0	0	0	9	0		
	0830	370	1018.1	975.6	+1.6	19.8	13.3	6.4	10.0	43	-6	2.5	+0.8	4.8	0	0	22	1	14	5	0	0	2	0	0	9	0		
Yeotmal	1730	"	1012.6	971.5	..	28.4	17.0	6.1	10.1	25	..	3.5	..	5.4	0	0	31	2	8	0	6	1	7	3	4	0	0		
	0830	451	1017.3	965.9	..	20.8	13.9	6.8	10.3	42	..	2.0	..	5.5	0	0	29	2	4	6	7	1	1	3	3	4	2	0	
	1730	"	1012.6	962.6	..	28.0	16.5	5.4	9.5	25	..	2.4	..	7.8	0	1	29	2	11	3	6	4	2	1	1	2	0		
Nagpur	0230	310	1015.5	979.4	..	15.4	12.9	9.5	12.2	64	..	1.4	..	5.4	0	0	28	11	2	2	5	2	1	1	2	0	0		
	0530	"	1015.5	979.7	..	14.4	11.7	9.0	11.5	70	..	1.5	..	5.2	0	0	28	12	7	1	1	1	1	0	0	4	5	0	
	0830	"	1018.5	982.4	+1.3	17.4	13.4	9.8	12.1	61	-2	2.7	+0.9	4.3	0	0	26	12	7	1	1	1	1	1	1	0	0	4	5
Gondia	1130	"	1016.7	982.0	..	26.1	18.4	13.1	14.8	45	..	2.4	..	6.6	0	0	29	3	8	6	3	5	2	1	1	2	0	0	
	1730	"	1013.3	978.5	..	27.5	18.7	12.2																					

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JANUARY, 1958 (PAUSA 11—MAGHA 11, 1879 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C.			Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Octas)		Wind speed (km. p.h.)		No. of observations																									
			At mean sea level or height in g.p.m. of nearest standard isobaric level			At station level						Dry bulb		Wet bulb		Dew point		Mean amount		Departure from normal		62 or more		N		NE		E		SE		S		SW		W		NW		Calm	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28													
Coastal Andhra Pradesh—(Contd.) Nellore—(contd.)	1130	20	1016.4	1014.1	..	28.6	22.4	19.0	22.1	56	..	5.1	..	5.8	0	0	29	2	13	6	3	2	1	0	2	2	0	0	0	0	0	0									
	1730	"	1013.8	1011.5	..	27.0	22.0	19.3	22.3	63	..	3.0	..	6.0	0	0	31	0	7	17	7	0	0	0	0	0	0	0	0	0	0	0									
Ongole	0830	12	1017.4	1016.1	..	24.4	..	..	..	..	..	2.1	..	2.1	0	0	13	0	7	0	2	0	1	0	0	3	18	0	0	0	0					
	1730	"	1013.4	1012.1	..	26.9	..	..	..	..	..	1.0	..	8.1	0	0	27	0	0	13	14	0	0	0	0	0	0	0	0	0	0	0				
Rentachintala	0830	106	1017.4	1005.2	..	23.0	19.1	16.6	19.0	68	-1	2.8	-0.8	1.4	0	0	13	0	2	4	2	4	1	0	0	0	18	0	0	0	0										
	1730	"	1012.8	1000.9	..	30.6	19.8	12.4	28.0	33	..	3.0	..	3.5	0	0	29	7	0	17	1	4	0	0	0	0	0	0	0	0	0	0									
Gannavaram	0230	23	1014.6	1011.9	..	20.6	19.2	18.3	21.1	87	..	0.8	..	1.3	0	0	7	0	1	5	1	0	0	0	0	0	0	0	0	0	0	0									
	0530	"	1014.8	1012.1	..	19.8	18.7	18.1	20.6	90	..	0.7	..	4.1	0	0	17	0	3	10	4	0	0	0	0	0	0	0	0	0	0	0									
Masulipatam	0830	"	1017.4	1014.7	..	22.9	20.3	18.7	21.7	78	..	1.7	..	8.9	0	0	26	2	6	16	2	0	0	0	0	0	0	0	0	0	0	0									
	1130	"	1016.7	1014.1	..	27.8	21.8	18.5	21.2	57	..	3.3	..	14.5	0	10	21	1	4	13	10	2	1	0	0	0	0	0	0	0	0	0									
Nidadavolu	0530	3	1014.9	1014.6	..	20.1	19.4	19.1	22.0	94	..	2.2	..	9.5	0	0	28	19	7	0	1	0	0	0	0	0	0	0	0	0	0	0									
	0830	"	1017.4	1017.1	+1.1	23.3	21.3	20.2	23.8	83	0	2.4	+0.5	6.5	0	0	27	11	12	2	0	1	0	0	0	0	0	0	0	0	0	0									
Kakinada	0830	"	1016.8	1016.5	..	27.6	22.4	19.6	23.1	62	..	5.1	..	11.4	0	0	30	1	2	9	10	4	2	0	0	0	0	0	0	0	0	0	0								
	1730	"	1014.1	1013.8	..	26.2	21.9	19.4	22.9	67	..	3.3	..	13.3	0	1	30	0	0	7	15	9	0	0	0	0	0	0	0	0	0	0									
Visakhapatnam	0230	"	1015.9	1015.6	..	22.6	20.9	20.0	23.4	86	..	2.1	..	5.8	0	0	18	0	1	6	6	3	1	0	0	1	13	0	0	0	0	0									
	0530	"	1015.2	1014.8	..	20.0	19.3	18.8	21.9	93	..	1.0	..	1.7	0	0	30	21	7	0	0	0	0	0	0	0	0	0	0	0	0	0									
Calingapatam	0830	6	1017.1	1016.4	+0.3	19.7	17.9	16.7	19.4	83	+3	3.0	+1.1	6.0	0	0	31	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
	1730	"	1014.3	1013.6	..	26.2	22.3	20.3	23.6	70	..	2.8	..	7.5	0	0	31	0	0	11	12	4	0	0	0	0	0	0	0	0	0	0	0								
Telangana Ramagundam	0830	156	1017.5	999.4	..	20.9	16.7	13.3	15.7	63	..	1.9	..	3.6	0	1	21	11	2	4	3	0	1	0	1	9	0	0	0	0	0	0									
	1730	"	1012.9	995.4	..	30.1	18.9	10.3	12.9	33	..	2.0	..	4.8	0	0	29	4	5	9	7	4	0	0	0	0	2	0	0	0	0	0	0								
Nizamabad	0830	381	1017.6	973.8	+1.4	19.2	14.9	11.5	13.5	62	-1	1.7	+0.3	0.7	0	0	5	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0									
	1730	"	1012.5	970.3	..	28.9	17.9	8.9	11.6	29	..	2.5	..	2.1	0	0	21	2	11	6	0	1	0	0	0	0	0	0	0	0	0	0									
Mahubnagar	0830	505	1016.8	959.8	..	21.6	17.0	13.9	16.3	64	..	1.9	..	7.2	0	0	27	2	7	14	2	1	1	0	0	0	0	0	0	0	0	0	0								
	1730	"	1011.7	956.2	..	28.2	17.3	9.1	11.0	31	..	2.7	..	6.5	0	0	27	0	5	16	3	1	2	0	0	0	0	0	0	0	0	0	0								
Hyderabad (Begumpet Aerodrome)	0230	545	1015.4	953.4	..	17.9	14.7	12.4	14.2	71	..	1.3	..	1.2	0	0	7	0	0	6	1	0	0	0	0	0	0	0	0	0	0	0									
	0530	"	1015.9	953.5	..	16.0	14.0	12.6	14.4	80	..	1.7	..	1.4	0	0	8	0	1	5	1	1	0	0	0	0	0	0	0	0	0	0	0								
Hakimpet	0830	"	1017.9	955.8	+1.5	19.6	15.9	13.2	15.3	68	-2	2.7	+0.5	4.0	0	0	14	0	1	5	5	1	0	0	0	0	0	0	0	0	0	0	0								
	1130	"	1016.1	955.6	..	25.7	17.5	11.5	13.4	42	..	2.5	..	10.3	0	1	28	0	4	8	13	2	1	0	0	1	2	0	0	0	0	0	0								
Hanamkonda	0530	613	1015.3	945.8	..	17.6	14.8	12.7	14.8	75	..	1.6	..	6.9	0	0	26	0	5	11	6	3	1	0	0	0	0	0	0	0	0	0	0								
	0830	"	1016.9	947.8	..	20.2	16.3	13.5	15.7	67	..	3.0	..	11.7	0	3	28	0	5	3	16	4	1	0	0	2	0	0	0	0	0	0	0								
Bhadrachallam	0830	111	1018.0	1005.1	..	21.2	18.6	16.4	19.1	75	..	2.3	..	3.7	0	0	20	7	6	2	3	5	4	0	1	2	5	0	0	11	0	0	0								
	1730	"	1013.0	1000.3	..	30.1	20.5	13.8	16.2	39	..	3.0	..	7.4	0	0	31	2	9	8	5	3	1	0	0	0	0	0	0	0	0	0	0								
Khammamethi	0830	112	1017.7	1003.7	..	22.5	19.3	17.4	20.1	75	..	2.2	..	2.6	0	0	18	1	0	15	1	0	0	0	0	0	0	0	0	0	0	0	0								
	1730	"	1013.0	1000.4	..	30.4	19.8	12.2	14.5	33	..	2.4	..	2.8	0	0	21	1	0	13	4	1	2	0	0	0	0	0	0	0	0	0	0	0							
Rayalaseema Arogavaram</td																																									

TABLE III.—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JANUARY, 1958 (PAUSA 11–MAGHA 11, 1879 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Cloud amount (Oktas)			Wind speed (km.p.h.)			No. of observations															
			At mean sea level or height in ft.p.m. of nearest standard isobaric level	At station level	Departure from normal	Dry bulb	Wet bulb	Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Mean	Departure from normal	Mean wind speed, km. per hour	62 or more	20 to 61	1 to 19	N	NE	E	SE	S	SW	W	NW	Calm	Variable			
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28			
1																														
Rayalaseema (contd.) Anantapur—contd.	1130	350	1015.2	976.1	..	27.5	18.8	12.5	14.7	40	..	1.6	..	8.8	0	1	29	0	0	22	7	1	0	0	0	1	0			
	1730	"	1010.8	972.2	..	29.8	18.7	9.8	12.6	30	..	3.0	..	10.5	0	3	27	0	2	26	2	0	0	0	0	1	0			
Kurnool	2330	"	1014.2	974.6	..	23.6	17.8	13.7	15.7	54	..	1.6	..	19.3	0	9	22	0	0	22	8	1	0	0	0	0	29	0		
	0830	281	1016.9	984.5	+1.0	19.4	17.2	15.5	17.9	78	+9	1.0	-0.7	0.6	0	0	2	0	0	1	1	0	0	0	0	0	0			
Madras State— Palayamcottai	1730	"	1012.0	981.0	..	31.0	20.6	13.9	15.8	37	..	2.5	..	4.9	0	0	17	0	7	7	3	0	0	0	0	0	14	0		
	0830	51	1015.9	1010.1	..	24.9	21.9	20.3	23.9	76	..	4.2	..	8.2	0	0	31	27	1	0	0	0	0	0	0	3	0	0		
Tuticorin	1730	"	1011.4	1005.7	..	29.1	23.2	20.1	23.7	59	..	3.5	..	10.1	0	3	28	21	6	0	0	0	0	0	0	4	0	0		
	0830	4	1015.9	1015.5	..	25.0	22.3	20.5	24.1	79	..	3.9	..	15.7	0	3	30	1	0	16	15	0	0	0	0	0	0	0		
Pamban	1730	"	1011.8	1011.1	..	27.4	24.2	23.1	27.9	76	..	2.2	..	28.1	0	3	28	21	6	0	0	0	0	0	0	0	4	0	0	
	0830	11	1015.6	1014.3	+1.6	26.4	23.9	22.7	27.6	81	-2	3.3	-0.1	11.1	0	0	31	7	15	5	0	0	0	0	0	0	0	0	0	
Mathurai	1730	"	1012.2	1010.9	..	26.7	23.7	22.3	27.0	77	..	3.6	..	18.5	0	10	21	4	25	2	0	0	0	0	0	0	5	0	0	
	0830	133	1015.8	1000.6	+1.1	24.7	21.7	20.0	23.4	75	-4	4.0	-0.4	3.0	0	0	31	0	26	0	0	0	0	0	0	0	0	0		
Nagapattinam	1730	"	1011.5	996.6	..	29.1	22.5	18.9	21.8	55	..	3.7	..	3.0	0	0	31	0	22	6	3	0	0	0	0	0	0	0	0	
	0830	9	1016.2	1015.1	+1.7	25.1	22.4	21.0	25.3	79	0	3.5	+0.8	10.9	0	6	25	5	12	1	0	0	0	0	1	12	0	0		
Tiruchirappalli	1730	"	1013.1	1012.0	..	26.8	23.3	21.5	25.9	73	..	3.2	..	17.9	0	8	23	1	29	1	0	0	0	0	0	0	1	8	0	
	0230	88	1013.8	1003.6	..	22.1	20.8	20.2	23.6	89	..	2.0	..	6.2	0	0	23	4	11	7	0	0	0	0	0	1	12	0		
Coimbatore	0530	"	1014.0	1003.8	..	21.5	20.3	19.7	23.1	90	..	1.9	..	4.9	0	0	19	7	9	2	0	0	0	0	0	1	12	0		
	0830	"	1016.3	1006.1	+1.0	24.1	21.3	19.9	22.5	77	-3	2.8	-0.1	8.5	0	0	29	6	20	3	0	0	0	0	0	0	2	0		
Coimbatore (Peelamedu Aerodrome)	1130	"	1015.5	1005.5	..	28.1	22.3	19.1	22.3	58	..	4.7	..	12.8	0	1	29	0	19	8	2	0	0	0	0	0	1	1	0	
	1730	"	1012.2	1002.3	..	28.6	22.2	18.5	21.1	55	..	3.0	..	12.5	0	0	31	0	15	16	0	0	0	0	0	0	0	0	0	
Salem	2330	"	1015.2	1004.9	..	22.8	21.4	20.7	24.4	88	..	2.0	..	8.2	0	0	27	1	16	10	0	0	0	0	0	0	4	0	0	
	0830	409	1016.5	970.3	+1.6	22.4	19.6	17.9	20.5	76	-4	4.5	+1.1	11.3	0	0	31	1	5	13	8	2	0	0	0	0	0	0	0	0
Kallakurichi	1730	"	1010.9	965.9	..	29.0	20.3	14.6	16.8	42	..	3.5	..	9.0	0	0	31	1	4	13	10	2	0	0	0	0	0	1	11	0
	0530	398	1014.5	969.0	..	19.8	18.6	17.9	20.5	89	..	3.2	..	4.3	0	0	20	5	12	2	0	0	0	0	0	0	1	3	0	
Cuddalore	1130	"	1015.0	970.8	..	22.2	19.6	18.0	20.7	78	..	3.6	..	8.0	0	1	27	1	16	9	0	0	0	0	0	0	1	0	0	
	1730	"	1014.9	970.2	..	26.6	20.1	16.0	18.3	53	..	3.3	..	13.3	0	2	29	0	15	14	1	0	0	0	0	0	0	0	0	0
Vellore	2330	"	1010.8	966.8	..	28.2	19.8	14.0	16.4	43	..	3.0	..	11.7	0	4	27	0	8	22	1	0	0	0	0	0	0	0	0	0
	0830	278	1014.4	969.3	..	22.8	19.6	17.3	20.3	72	..	2.0	..	10.2	0	5	20	0	6	15	4	0	0	0	0	0	0	5	0	0
Madras	0530	278	1014.2	982.3	..	20.5	19.7	19.2	23.0	93	..	1.0	..	3.2	0	0	19	0	8	11	0	0	0	0	0	0	0	12	0	
	0830	"	1016.2	984.5	+1.0	22.9	20.4	18.9	22.1	79	+3	1.5	-1.0	6.3	0	0	31	0	17	10	3	0	0	0	0	0	1	0	0	
Honavar	1130	"	1015.0	984.0	..	28.6	23.0	20.0	23.6	60	..	2.7	..	8.1	0	0	27	0	12	10	4	0	1	0	0	0	3	0	0	0
	1730	"	1010.9	980.1	..	29.8	24.5	21.9	26.4	63	..	2.6	..	6.4	0	0	28	0	7	18	1	2	0	0	0	0	0	3	0	0
Mangalore	2330	"	1014.8	983.3	..	23.9	22.4	21.6	25.8	87	..	1.5	..	12.1	0	1	27	0	7	18	3	0	0	0	0	0	0	5	0	0
	0830	214	1016.6	1002.2	..	23.2	21.1	20.0	23.3	82	..	2.8	..	8.6	0	0	30	14	1	0	1	0	0	0	0	0	1	13	0	
Madras (Nungambakkam)	1730	"	1012.3	998.0	..	28.5	22.6	19.4	22.6	58	..	2.9	..	11.2	0	0	31	1	15	13	0	0	0	0	0	0	1	1	0	
	0530	12	1013.9	1012.5	..	21.3	20.4	20.0	23.3	92	..	3.4	..	0.2	0	0	2	0	0	0	0	0	0	0	0	0	2	29	0	
Coastal Mysore— Karwar	0830	"	1016.4	1015.0	+1.3	23.3	21.4	20.3	24.0	83	-1	4.9	+1.4	2.7	0	0	22	10	6	0	0	0	0	0	0	0	1	0	0	
	1130	"	1015.9	1014.5	..	27.4	22.8	20.4	24.1	66	..	4.1	..	6.2	0	0	30	7	20	3	0	0	0	0	0	0	0	0	0	0
Madras	1730	"	1013.2	1011.8	..	26.4	22.8	20.9	24.7	72	..	2.6	..	5.3	0	0	31	0	23	8	0	0	0	0	0	0	0	0	20	0
	0230	16	1014.2	1012.4	..	22.1	20.9	20.3	23.9	90	..	1.1	..	4.8	0	0	30													

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JANUARY, 1958 (PAUSA II—MAGHA II, 1879 SAKA)

Division and station	Hour of observation I.S.T.	Mean pressure in millibars.				Mean temperature in °C.				Cloud amount (Octas)				Wind speed (km. p.h.)				No. of observations																									
		At mean sea level or height in gm. of nearest standard barometric level		At station level		Dry bulb		Wet bulb		Dew point		Vapour pressure in mb.		Relative humidity %		Departure from normal		Mean amount		Departure from normal		Mean wind speed, km. per hour		N		NE		E		SE		S		SW		W		NW		Calm		Variable	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28														
Coastal Mysore (contd.)																																											
1 Mangalore—contd.	0830	"	1014.9	1012.4	+1.1	24.7	20.8	18.4	21.5	69	+1	1.1	-0.9	7.5	0	1	28	1	3	22	3	0	0	0	0	2	0																
	1130	"	1014.8	1012.4	..	30.0	21.9	16.8	19.8	47	..	1.4	..	10.6	0	4	24	0	5	10	5	2	0	3	3	3	0	0															
	1730	"	1011.3	1008.8	..	28.8	23.1	20.2	23.5	60	..	1.6	..	13.8	0	6	25	1	6	2	0	0	1	0	0	0	2	7	J														
	2330	"	1013.9	1011.4	..	25.5	22.5	21.0	24.8	76	..	0.9	..	4.9	0	0	24	3	11	7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
Mangalore (Bajje Aerodrome)	0530	103	1013.2	1001.3	..	21.4	19.6	18.7	21.2	84	..	1.6	..	5.7	0	0	18	0	1	16	1	0	0	0	0	0	0	0	0	0	0	0	0	0									
Mysore (North) Bidar	0830	"	1015.2	1003.4	..	24.2	20.5	18.2	20.9	71	..	1.5	..	10.1	0	1	25	0	2	20	4	0	0	0	0	0	0	0	0	0	0	0	0	0									
	1730	"	1011.3	999.7	..	28.1	22.5	19.5	23.2	60	..	1.8	..	13.2	0	3	25	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
	2330	"	1017.1	942.4	..	19.6	14.5	10.3	12.7	56	-3	2.3	+0.2	12.2	0	1	30	2	2	14	7	2	2	2	0	0	0	0	0	0	0	0	0	0									
Gulbarga	0830	458	1017.3	965.4	+1.6	21.7	15.5	10.6	13.1	51	-5	2.9	+1.6	9.6	0	0	30	1	7	13	6	1	1	0	0	0	0	0	0	0	0	0	0	0									
Bijapur	0830	594	1017.0	949.9	+1.4	19.5	15.5	12.3	14.3	64	+4	2.4	+0.9	5.0	0	0	23	3	1	1	7	8	1	0	0	0	0	0	0	0	0	0	0	0									
Belgaum	1730	"	1010.5	945.8	..	29.1	19.7	13.0	15.3	40	..	3.0	..	3.8	0	0	25	2	4	13	3	2	1	0	0	0	0	0	0	0	0	0	0	0									
	0830	781	1016.1	928.6	+9.0	18.7	13.8	9.5	11.7	57	-5	..	..	1.6	0	0	16	0	1	0	4	4	1	2	15	0	0	0	0	0	0	0	0	0							
	1730	"	1011.6	927.1	..	27.1	16.5	8.6	10.2	32	..	..	..	4.2	0	0	24	3	4	3	2	5	4	3	0	7	0	0	0	0	0	0	0	0						
Belgaum (C.T.O.)	0830	753	1016.7	932.4	+1.3	18.8	14.4	11.3	13.1	63	0	1.2	-0.3	2.5	0	0	19	1	3	9	4	0	0	0	0	0	0	0	0	0	0	0	0	0									
Belgaum (Sambre Aerodrome)	1730	"	1010.4	928.8	..	27.4	17.7	10.8	13.0	37	..	2.9	..	8.7	0	0	31	0	7	12	3	1	4	4	0	0	0	0	0	0	0	0	0	0									
	0530	761	1014.7	929.1	..	17.0	13.0	9.8	11.9	64	..	1.0	..	1.3	0	0	8	0	6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
	0830	"	1016.1	931.3	..	20.1	15.3	11.7	14.3	59	..	1.7	..	4.0	0	0	16	0	4	9	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
Gadag	1130	"	1014.1	931.1	..	26.1	17.7	12.0	14.3	42	..	1.6	..	16.6	0	10	19	1	0	12	14	1	1	0	0	0	0	0	0	0	0	0	0	0	0								
	1730	"	1010.3	928.0	..	27.7	17.7	10.6	13.1	35	..	2.0	..	9.8	0	1	25	0	2	17	3	1	2	1	0	0	0	0	0	0	0	0	0	0	0								
	0830	650	1016.1	943.5	+1.1	21.5	16.6	11.8	15.1	55	-7	2.1	+0.7	7.8	0	0	28	1	2	17	6	0	0	2	0	0	0	0	0	0	0	0	0	0	0								
Gadag (P.B.O.)	1730	"	1010.7	940.1	..	28.5	17.3	8.7	11.9	30	..	3.1	..	7.9	0	0	31	0	0	17	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
	0530	661	1014.6	940.0	..	17.9	14.5	12.1	13.9	69	..	0.9	..	8.4	0	0	25	0	0	13	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
	0830	"	1016.1	942.2	..	20.6	16.4	13.8	15.3	66	..	1.5	..	8.9	0	1	25	0	0	13	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
Raichur	1130	"	1014.9	942.2	..	25.8	18.5	14.7	15.9	51	..	1.7	..	12.1	0	2	27	0	0	10	16	1	0	1	2	0	0	0	0	0	0	0	0	0	0	0							
	2330	"	1014.8	941.0	..	20.8	15.6	12.2	13.4	59	..	1.2	..	8.7	0	0	28	0	1	22	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
	0830	400	1016.9	971.6	+1.4	22.2	17.6	14.1	16.3	61	-3	1.3	-0.2	5.3	0	0	29	0	4	6	11	5	0	2	1	0	0	0	0	0	0	0	0	0	0	0							
Mysore (South) Bellary	1730	"	1011.8	967.6	..	29.6	18.5	9.5	12.3	30	..	2.5	..	6.1	0	0	29	3	8	9	5	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0							
	0830	449	1016.5	965.6	+1.1	21.4	16.7	13.1	15.6	59	-5	1.7	-0.4	2.7	0	0	21	0	0	0	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
	1730	"	1010.8	961.5	..	29.4	17.7	7.6	11.8	26	..	3.0	..	2.9	0	0	27	0	0	0	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
Chitaldrug	0830	733	1015.8	934.2	+1.2	21.1	16.3	12.8	14.8	60	-2	4.2	+2.0	8.0	0	0	27	0	0	0	10	13	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0						
	1730	"	1010.1	930.8	..	28.0	17.3	9.2	12.1	32	..	3.3	..	6.1	0	0	31	1	2	23	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0						
	2330	"	1009.6	947.4	..	28.8	17.9	10.1	12.3	32	..	1.9	..	5.8	0	0	26	0	5	13	3	0	0	1	2	2	0	0	0	0	0	0	0	0	0	0	0	0					
Shimoga	0830	571	1016.5	951.7	..	17.9	15.5	13.9	15.8</td																																		

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JANUARY, 1958 (PAUSA II—MAGHA II, 1879 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C.			Relative humidity %	Departure from normal	Cloud amount (Oktas)	Wind speed (km. p.h.)	No. of observations															
			At station level			Departure from normal							Wind direction															
			At mean sea level or height in ft.p.m. of nearest standard isobaric level	At station level	Dry bulb	Wet bulb	Dew point	Vapour pressure in mb.					N	NE	E	SE	S	SW	W	NW	Calm	Variable						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
Kerala—(Contd.)																												
Fort Cochin—contd.	1730	3	1010.6	1010.3	..	28.7	24.5	22.5	27.2	69	..	4.0	..	10.0	0	1	28	1	0	0	0	5	12	14	2	0		
Cochin (Naval Air Station)	0230	3	1012.4	1012.2	..	24.4	22.7	21.8	26.1	86	..	1.9	..	0.5	0	0	5	0	1	3	0	1	0	0	0	26	0	
	0530	"	1012.4	1012.2	..	23.0	21.4	20.5	24.2	86	..	1.9	..	1.8	0	0	12	2	5	5	0	0	0	0	0	19	0	
	0830	"	1014.4	1014.2	..	25.7	22.0	19.9	23.5	71	..	1.9	..	3.4	0	0	26	1	15	9	1	0	0	0	0	5	0	
	1130	"	1014.2	1014.0	..	30.0	23.0	19.1	22.4	53	..	2.1	..	7.9	0	0	29	3	7	6	2	2	1	3	5	2	0	
	1730	"	1010.9	1010.7	..	29.7	23.8	20.8	24.8	59	..	2.5	..	12.5	0	2	29	0	0	0	0	1	2	21	7	0	0	
	2330	"	1013.6	1013.4	..	25.7	23.4	22.3	26.9	81	..	2.2	..	1.0	0	0	8	4	0	1	0	1	1	23	0	0		
Alleppey	0830	4	1014.2	1013.8	..	26.7	23.3	21.6	26.0	74	..	3.5	..	6.2	0	0	31	0	3	18	9	1	0	0	0	0	0	
	1730	"	1010.4	1010.0	..	29.7	25.3	23.2	28.6	69	..	3.3	..	17.0	0	15	16	1	0	0	0	0	2	13	15	0	0	
Funalo	0830	34	1014.6	1010.3	..	22.5	20.9	20.1	23.3	86	..	1.8	..	0.6	0	0	4	0	2	0	1	0	0	0	27	0		
Trivandrum	0230	64	1011.8	1004.5	..	24.2	22.5	21.7	25.9	86	..	1.6	..	3.7	0	0	28	4	13	5	4	0	1	0	1	3	0	
	0530	"	1012.0	1004.7	..	23.2	22.0	21.4	25.4	89	..	1.5	..	3.6	0	0	30	5	18	4	0	0	0	0	3	1	0	
	0830	"	1014.1	1006.8	+1.3	25.1	22.7	21.5	25.7	81	+4	1.7	-0.9	3.3	0	0	28	1	16	3	5	0	0	0	3	3	0	
	1130	"	1013.4	1006.2	..	30.6	23.0	20.4	24.3	55	..	3.4	..	4.8	0	0	30	2	2	3	6	0	7	6	4	1	0	
	1730	"	1010.9	1003.6	..	29.4	24.0	21.3	25.4	63	..	2.4	..	5.4	0	0	31	0	2	1	2	2	17	4	3	0	0	
	2330	"	1013.4	1006.1	..	25.4	23.3	22.3	27.0	83	..	2.3	..	4.0	0	0	29	8	4	6	1	2	1	0	7	2	0	
Trivandrum (Aerodrome)	0830	8	1014.1	1013.2	..	25.7	23.2	21.9	26.5	79	..	2.7	..	3.2	0	0	22	8	8	6	0	0	0	0	9	0		
Arabian Sea Islands Ainicoy*	0530	2																										
	0830	"																										
	1130	"																										
	1730	"																										
	2330	"																										
mini Divi*	0830	4																										
Hill Stations excluding Kashmir																												
Walong (R)	0830																											
	1730																											
Kohima	0830	1406	1571.2	867.0	..	13.2	9.1	4.6	8.6	58	..	2.6	..	..	0	0	31	3	0	6	4	4	3	6	4	0	1
	1730	"	1539.7	863.7	..	13.4	10.8	8.3	11.0	73	..	3.3	..	..	0	0	31	3	2	1	1	4	3	7	8	0	2
Aijalt	0830	1097																										
	1730	"																										
Shillong	0830	1500	1537.2	853.9	+1.3	11.8	8.2	4.8	8.4	61	-9	1.4	-0.1	1.1	0	0	6	1	0	0	0	0	4	1	0	25	0	
	1730	"	1524.4	851.6	..	11.9	9.9	7.7	10.7	77	..	6.0	..	0.1	0	0	1	0	0	0	0	0	1	0	0	30	0	
Cherrapunji	0830	1313	1531.5	872.4	+0.9	13.3	11.3	9.1	12.0	77	+14	1.2	-0.8	3.6	0	0	31	2	3	10	1	0	15	0	0	0		
	1730	"	1511.6	870.4	..	13.0	11.5	10.6	12.5	84	..	0.8	..	3.4	0	0	31	0	0	3	1	0	27	0	0	0	0	
Dibring (Raj-Bhawan)	0830	2127	1557.9	793.7	+4.4	6.2	4.8	3.3	7.8	82	+18	4.5	+1.1	0.2	0	0	1	0	0	0	0	0	1	0	30	0		
	1730	"	1535.1	791.7	..	6.8	5.7	4.2	6.7	83	..	4.3	..	0.4	0	0	5	0	0	0	0	0	1	4	0	26	0	
Kalimpong	0830	1209	1534.4	883.6	+0.6	12.5	10.8	9.8	11.8	82	+7	1.8	-0.6	3.0	0	0	31	0	1	0	0	0	0	0	30	0		
	1730	"	1498.1	879.9	..	13.1	11.3	10.2	12.3	81	..	3.4	..	2.8	0	0	29	0	0	0	0	0	0	0	0	2	0	
Katmandu	0830	1337	1550.3	872.3	..	6.9	6.0	5.0	9.2	87	+2	5.2	+0.2	0.1	0	0	1	0	0	1	0	0	0	1	1	8	15	0
	1730	"	1520.5	868.9	..	13.6	10.4	7.2	10.1	66	..	3.5	..	2.2	0	0	16	6	0	0	0	0	1	1	0	0	30	0
Mukteswar (Kumaon)	0830	2311	3130.9	774.5	+1.3	5.4	1.7	-4.7	3.8	54	+5	2.8	-0.3	8.2	0	1	25	0	5	6	0	2	2	8	3	5	0	
	1730	"	3123.0	773.3	..	6.8	4.5	0.5	6.6	69	..	3.3	..	9.8	0	1	26	0	2	2	0	0	2	17	4	4	0	
Nainital	0830	1953	1522.5	807.1	..	5.7	2.6	-2.6	5.4	60	..	3.3	..	1.8	0	0	9	1	1	0	0	0	0	4	3	22	0	
	1730	"	1507.4	805.9	..	7.6	5.2	2.7	6.9	72	..	3.7	..	5.5	0	0	27	5	1	1	2	2	3	12	1	4	0	
Tapoban	0830	..																										

TABLE III.—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JANUARY, 1958 (PAUSA II—MAGHA II, 1879 SAKA)

Division and station.	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C.			Cloud amount (Oktas)			Wind speed (km. p.h.)			No. of observations																								
			At station level			Departure from normal			At station level			Departure from normal			Mean amount			Departure from normal			62° or more			20 to 61			1 to 19			N	NE	E	SE	S	SW	W	NW	Calm	Variable
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28									
Hill Stations, excluding Kashmir contd. Abu—contd.	1730	1195	1521.9	884.3	..	17.6	13.7	10.6	13.1	64	..	0.7	..	5.1	0	0	18	6	3	0	1	1	1	2	4	13	0												
Pachmarhi .	0830	1075	1546.2	899.2	+1.5	13.2	10.1	6.9	10.2	68	+6	2.6	+0.7	1.6	0	0	14	0	3	2	2	3	1	1	4	9	6	0											
Mahabaleshwar .	1730	"	1538.7	896.7	..	21.7	13.8	7.0	10.1	42	..	2.1	..	3.0	0	0	25	5	4	1	0	1	1	4	9	6	0												
Nandi Hills .	0830	1382	1548.1	866.9	+1.5	17.1	11.6	6.7	9.6	50	2	1.9	+0.9	10.0	0	0	26	1	1	13	9	0	1	1	4	1	11	0	0										
Mercara .	0830	1152	1539.3	889.7	+1.9	16.9	14.9	13.3	15.5	78	-0	1.9	-1.5	6.2	0	0	31	0	14	15	0	0	0	0	1	1	0	0	0										
Kodaikanal .	0530	2343	3146.3	772.1	..	9.4	6.7	1.3	8.1	72	..	4.4	..	7.0	0	1	22	1	4	3	8	1	0	1	5	8	0												
Ootacamund .	0830	"	3175.4	774.1	+2.1	12.1	8.4	3.6	8.7	65	+10	2.3	-0.5	6.4	0	1	22	1	3	4	14	0	0	0	4	8	0												
	1130	"	3187.4	774.2	..	15.8	11.0	6.1	10.0	58	..	3.2	..	6.8	0	0	26	1	3	4	14	0	0	0	4	5	0												
	1730	"	3161.3	772.4	..	13.3	11.2	9.2	11.8	79	..	5.2	..	5.6	0	1	21	0	1	3	11	3	0	1	3	9	0												
	2330	"	3164.5	773.7	..	9.7	7.7	4.2	9.2	78	..	3.5	..	7.8	0	3	20	2	2	3	6	2	0	1	7	8	0												
	0830	2247	1543.8	782.0	+1.4	10.1	7.3	4.9	8.6	71	+13	1.6	+0.6	0.6	0	0	3	0	2	1	0	0	0	0	0	28	0												
	1730	"	1514.4	780.6	..	15.7	12.6	11.0	12.9	74	..	3.7	..	2.0	0	0	8	0	2	4	1	0	0	0	1	23	0												
Coonoor .	0830	1747	1543.7	830.3	..	14.3	11.4	9.0	11.7	75	+10	3.1	-0.2	1.7	0	0	15	5	0	4	2	1	0	0	3	16	0												
Sikkim—Lachen .	0830	6.1										
Tibet—Yatung (Chumbi) .	0830	-1.1	-1.9	-3.3	4.8	86	+5	0.1	-2.0											
Lhasa .	0830	3685	3121.2	653.4	..	0.4	-0.3	-1.6	5.5	88	..	1.2	..	1.7	..	..	0	4	0	12	0	0	0	0	15	0											
Ceylon—Colombo .	0830	7	1014.2	1013.4	+1.5	25.1	22.8	21.8	25.9	82	-3	3.6	-0.5	10.1	0	0	31	4	21	4	2	0	0	0	0	0	0	0											
Trincomalee .	0830	3	1014.9	1014.5	+1.5	27.2	24.4	23.0	27.9	75	..	4.0	..	13.8	0	4	26	11	6	2	0	0	0	2	9	1	0												
Batticaloa .	0830	3	1015.0	1014.7	..	26.7	23.8	22.2	28.4	77	..	4.7	..	18.2	0	18	12	13	14	1	0	0	0	1	1	0	0	0											
Hambantota .	0830	15	1014.2	1012.4	+2.3	25.8	23.8	22.5	27.7	83	-2	4.0	+0.6	23.6	0	22	9	14	16	1	0	0	0	0	0	0	0	0											
	1730	"	1011.0	1009.3	..	27.1	24.6	23.5	28.9	81	..	4.7	..	30.1	0	27	4	2	26	3	0	0	0	0	0	0	0	0											
Mannar .	0830	4	1015.5	1015.1	..	26.1	23.5	22.1	26.8	79	..	3.7	..	12.4	0	3	28	4	26	1	0	0	0	0	0	0	0	0											
	1730	"	1012.1	1011.7	..	27.7	23.6	21.5	25.8	69	..	4.4	..	18.2	0	13	18	8	21	1	1	0	0	0	0	0	0	0											
Hydrometeorological Observatories Damodar Catchment	0830	239	1019.2	991.0	..	14.7	11.4	8.1	10.8	65	..	2.3	..	3.0	0	0	24	1	0	0	1	1	5	5	11	7	0												
Bokaro .	1730	"	1014.1	986.9	..	23.6	15.0	6.7	10.1	35	..	3.0	..	4.9	0	0	29	9	5	2	2	1	1	0	9	2	0												
Hazaribagh .	0830	615	1017.6	903.9	..	17.2	12.7	8.9	11.0	59	..	1.2	..	3.8	0	0	22	0	1	2	2	1	5	4	7	9	0												
	1730	"	1013.9	901.4	..	19.8	13.7	8.5	10.7	50	..	1.2	..	4.9	0	1	23	0	0	1	4	1	6	4	8	7	0												
Tilaiya .	0830	16.8	12.5	8.4	11.0	58	..	1.7	..	5.8	0	0	18	0	2	1	3	0	0	6	5	1	23	0											
Ramgarh .	0830	..	..	..	..	15.2	11.7	8.0	10.9	63	..	2.2	..	3.4	0	0	31	0	1	2	0	0	13	11	4	0	0								
	1730	..	..	..	..	23.0	15.4	8.6	11.3	41	..	2.9	..	1.8	0	0	17	0	0	3	1	0	0	1	12	14	0								
Panchet Hills .	0830	17.7	13.2	9.1	11.8	58	..	1.8	..	2.9	0	0	28	2	1	1	0	0	0	21	1	2	3	0											
	1730	..	..	..	..	23.5	15.4	8.4	11.2	39	..	2.3	..	2.1	0	0	21	8	6	0	0	1	1	5	10	0									
Durgapur .	0830	..	..	..	..	19.4	15.1	11.3	13.6	61	..	2.0	..	8.0	0	0	28	11	3	1	2	2	0	1	8	3	0								
	1730	..	..	..	..	23.9	17.0	11.3	13.8	47	..	2.0	..	4.3	0	0	27	18	3	2	0	3	0	0	1	4	0								
Mahanadi Catchment Baramul .	0830	64	1019.9	1012.4	..	18.2	15.6	13.6	15.9	75	..	2.1	..	3.3	0	0	17	4	5	0	3	4	1	0	0	14	0												
	1730	"	1014.6	1007.2	..	24.1	19.4	15.4	18.7	61	..	3.2	..	1.7	0	0	8	3	0	0	1	4	0	0	0	23	0												
Hirakud .	0830	159	1018.6	1000.1	..	19.8	16.2	13.4	15.5	67	..	1.5	..	4.7	0	1	26	5	8	7	3	1	2	0	0	1	4	3	19	0									
Khijrawan .	0830	..	..	..	..	19.7	15.8	12.4	14.9	64	..	1.6	..	1.5	0	0	12	2	2	0	0	1	4	3	7	0	0								
	1730	..	..	..	..	25.4	16.8	10.0	12.2	39	..	1.4	..	..	..	..	..	6	4	1	2	4	4	3	7	0	0			
Sonepur .	0830	..	..	..	..	24.5	18.2	13.7	15.9	52	..	..	..	9.3	0	0	24	2	2	2	4											

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JANUARY, 1958 (PAUSA 11—MAGHA, 11, 1879 SAKA)

Division and station	Hour of observation I.S.T.	Mean pressure in millibars				Mean temperature in °C.				Cloud amount (Oktas)			Wind speed (Km. p.h.)			No. of observations												
		Height of barometer cistern above mean sea level in metres	At mean sea level or height in f.p.m. of nearest standard isobaric level	At station level	Departure from normal	Dry bulb	Wet bulb	Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Mean amount	Departure from normal	Mean wind speed Km. per hour	62 or more	20 to 61	1 to 19	N	NE	E	SE	S	SW	W	NW	Calm		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
Hydrometeorological Observatories —(contd.)																												
Narbada Catchment —(contd.)																												
Thikri . .	0830	..	..	..	..	..	19.6	13.8	8.6	10.8	50	..	2.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sabarmati Catchment Jhadol . .	0830	..	..	..	..	..	14.1	11.3	8.3	11.0	69	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dharoi . .	0830	..	..	..	..	..	18.7	13.1	6.9	10.6	50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ganga Catchment Mukhimpur . .	0830	..	..	..	..	..	26.7	16.4	6.8	10.3	30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tehri . .	0830	..	..	..	..	..	8.7	5.2	1.2	6.6	59	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gandak Catchment Gorkha . .	0830	..	..	..	..	..	16.3	12.7	9.7	12.1	65	..	2.8	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pokhara . .	0830	..	..	..	..	..	12.9	10.8	8.8	11.5	77	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Nawakot . .	0830	..	..	..	..	..	13.9	11.2	8.4	11.3	70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Jomosom . .	0830	..	..	..	..	..	12.9	11.1	9.3	11.9	79	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Timure . .	0830	..	..	..	..	..	16.0	13.4	11.4	13.6	75	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gogra Catchment (Trans-Himalayan Region). Dailekh . .	0830	..	..	..	..	..	14.2	11.9	10.3	12.3	76	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gogra Catchment Dandeldhura . .	0830	..	..	..	..	..	15.8	12.0	8.7	11.3	63	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Munsiyari* . .	0830	..	..	..	..	..	1.7	0.5	-1.9	5.3	73	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Butwal . .	0830	..	..	..	..	..	5.8	2.9	-0.3	5.9	64	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bagmati Catchment Katmandu . .	0830	1333	1543.5	872.2	..	6.5	5.9	5.2	8.9	92	..	5.1	..	0.1	0	0	1	0	0	1	0	0	0	0	0	30	0	
Kosi Catchment Cha utara . .	1130	..	1541.1	871.3	..	15.3	10.9	6.7	9.9	57	..	3.0	..	0.6	0	0	6	0	1	1	1	2	0	0	25	0		
Okhaldunga . .	0830	..	1520.6	869.3	..	13.2	10.2	7.3	10.3	68	..	3.5	..	2.3	0	0	16	6	0	0	0	0	1	1	8	15	0	
Barahkshetra . .	0830	..	146	1019.4	1002.2	..	20.7	16.1	12.6	14.6	60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Angbung . .	0830	..	..	..	..	..	14.0	9.7	6.0	9.3	58	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplejung . .	0830	..	..	..	..	..	8.7	7.3	5.9	9.3	83	..	4.1	..	1.7	0	0	17	0	0	0	0	8	3	3	2	1
Taplethok . .	0830	12.3	9.1	6.3	9.6	67	..	4.1	..	5.0	..	0	0	20	0	0	1	2	7	3	7	0	11
Wallungchung (R) (R) Gola . .	0830	..	..	..	..	..	10.6	8.2	5.8	9.3	73	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chainpur . .	0830	..	..	..	..	..	10.0	8.7	7.3	10.4	85	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Meta Catchment Gangtok . .	0830	1812	1534.9	822.4	..	7.3	5.9	4.3	8.5	82	..	3.9	..	1.0	0	0	9	0	6	0	0	2	0	0	1	22	0	
Geyzing . .	0830	..	..	..	..	..	10.7	9.1	7.4	10.5	81	..	..	..	4.5	0	0	30	1	2	0	1	9	10	5	2	1
	1130	..	1523.9	821.6	..	11.0	8.7	6.7	9.8	76	..	4.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	1511.1	820.1	..	8.6	7.4	6.2	9.6	86	..	5.8	..	3.1	0	0	24	2	1	1	11	9	0	0	0	7	0	
	1730	..	..	..	..	..	10.7	9.1	7.4	10.5	81	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(a) Mean of 30 days.

*Data not reliable.

(b) Mean of 25 days.

†Observations for 30 days.

(R) Register not received.

(f) Mean of 25 days.

**MONTHLY MEANS OF UPPER WINDS,
JANUARY 1958 (PAUSA II--MAGHA II, 1879 SAKA)**

During the month, observations of velocity and direction of upper winds were made at 55 stations in India. Out of these, at 43 stations all the observations were taken by means of pilot balloons and at 12 stations some observations were made by means of pilot balloons while the other observations by the radiowind method. Particulars of the stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the table overleaf. All radiowind ascents have been indicated by means of an asterisk (*) against the scheduled hours.

Data from ascents made at the scheduled time or within two hours on either side of the scheduled times of regular observations have been used for averaging.

Data up to 9.0 km. a.m.s.l. are given under Table IV and data above 9.0 km. a.m.s.l. under Table V.

In Tables IV and V :

n—represents the number of observations,

V—represents the mean wind speed in knots irrespective of direction,

v—represents the resultant mean velocity in knots,

D—represents the direction of the resultant mean wind in degrees East of North.

Mean and resultant winds are given in this publication for the following heights :

Surface, 0.15 km. a.g., 0.3, 0.6, 0.9, 1.5, 2.1, 3.0, 3.6, 4.5, 5.4, 6.0, 7.2, 9.0, 10.5, 12.0, 14.1, 16.2, 18.0, 21.0, 24.0, 27.0, 30.0, 33.0 and 36.0 km. a.m.s.l. Of these the levels 1.5, 3.0, 5.4, 7.2, 9.0, 12.0, 14.1 and 16.2 km. a.m.s.l. are considered as the best approximations to the standard pressure levels 850, 700, 500, 400, 300, 200, 150 and 100 mb. respectively.

PARTICULARS OF PILOT BALLOON AND RAWIN STATIONS IN INDIA

Station	Lat. N.	Long. E.	Height of Anemometer head a.m.s.l. in metres	Date of opening	Approximate times of flight (IST)		
					0530	1730	2330
1 Agartala	23°53'	91°15'	17	28th November 1951	0530	1730	2330
2 Ahmedabad	23°04'	72°38'	61	19th May 1928	0530	1730	2330
3 Amausi	26°45'	80°53'	132	20th November 1950	0530	1730	2330
4 Ambala	30°32'	76°46'	279	1st April 1941	0530	1730	2330
5 Amritsar	31°38'	74°52'	243	11th June 1957	0530 *	1730*	
6 Anantapur	14°41'	77°37'	364	12th February 1946	0530	1730	2330
7 Asansol	23°41'	86°59'	135	29th May 1942	0530	1730	2330
8 Baghdegra	26°38'	88°19'	140	7th June 1953	0530	1730	2330
9 Bairagarh	23°17'	77°21'	532	26th February 1943	0530	1730	2330
10 Bamrauli	25°27'	81°44'	103	28th February 1930	0530*	1130	1730* 2330
11 Bangalore	12°58'	77°35'	936	19th May 1915	0530	1730	2330
12 Bareilly	28°22'	79°24'	180	12th January 1943	0530	1730	
13 Begumpet	17°27'	78°28'	543	1st September 1929	0530	1730	2330
14 Bhagalpur	25°14'	86°57'	61	19th May 1950	0530	1730	
15 Bhubaneshwar	20°15'	85°50'	55	5th December 1942	0530	1730	2330
16 Bhuj	23°15'	69°48'	111	14th September 1937	0530	1730	2330
17 Bikaner	28°00'	73°18'	229	18th October 1946	0530	1730	2330
18 Chikalthana	19°51'	75°24'	583	7th October 1951	0530	1730	2330
19 Cochin†	09°56'	76°14'	3	16th March 1942	0530	1730	2330
20 Darjeeling	27°03'	88°16'	2115	21st May 1956	0530	1730	
21 Dum Dum	22°39'	88°27'	13	14th May 1921	0530*	1130	1730* 2330
22 Gadag	15°25'	75°38'	650	3rd May 1943	0530	1730	2330
23 Ganavaram	16°32'	80°48'	34	8th April 1942	0530	1730	2330
24 Gauhati	26°05'	91°43'	51	12th March 1955	0530*	1130	1730* 2330
25 Gaya	24°45'	84°57'	119	19th March 1937	0530	1730	2330
26 Gopalpur	19°16'	84°53'	24	15th February 1946	0530	1730	2330
27 Gorakhpur	26°45'	83°22'	83	5th January 1943	0530	1730	
28 Gwalior	26°14'	78°15'	219	7th May 1938	0530	1730	2330
29 Imphal	24°51'	93°58'	805	8th March 1952	0530	1730	2330
30 Jabalpur	23°10'	79°57'	402	30th July 1928	0530	1730	2330
31 Jagdalpur	19°05'	82°02'	562	25th March 1948	0530	1730	2330
32 Jaipur	26°49'	75°48'	404	6th June 1953	0530	1730	
33 Jamshedpur	22°49'	86°11'	147	23rd July 1942	0530	1730	
34 Jharsuguda	21°55'	84°05'	240	1st May 1944	0530	1730	2330
35 Jodhpur	26°18'	73°01'	229	15th October 1934	0530*	1130	1730* 2330
36 Madras	13°00'	80°11'	29	8th April 1926	0530*	1130	1730* 2330
37 Mangalore	12°52'	74°51'	40	4th June 1928	0530	1730	2330
38 Minicoy	08°18'	73°00'	16	14th April 1941	0530	1730	2330
39 Mohanbari	27°29'	95°01'	112	1st June 1948	0530	1730	2330
40 Mussoorie	30°27'	78°05'	2050	3rd November 1955	0530	1730	
41 Nagpur	21°06'	79°03'	316	23rd April 1943	0530*	1130	1730* 2330
42 Nanpara	27°50'	81°30'	141	23rd April 1957	0530	1730	
43 New Delhi	28°35'	77°12'	227	20th October 1936	0530*	1130	1730* 2330
44 Poona	18°32'	73°51'	593	5th January 1925	0530	1730	2330
45 Port Blair	11°40'	92°43'	93	29th October 1945	0530*	1130	1730* 2330
46 Raipur	21°14'	81°39'	308	15th July 1944	0530	1730	2330
47 Raxaul	26°59'	84°51'	83	28th Oct. 1957	0530	1730	
48 Santa Cruz	19°07'	72°51'	14	14th May 1933	0530*	1130	1730* 2330
49 Tezpur	26°37'	92°47'	79	12th August 1932	0530	1730	2330
50 Tiruchirapalli	10°46'	78°43'	96	22nd June 1936	0530	1730	2330
51 Trivandrum	08°29'	76°57'	73	8th December 1928	0530*	1130	1730* 2330
52 Udaipur	24°35'	73°42'	587	24th June 1947	0530	1730	2330
53 Vengurla	15°52'	73°38'	8	22nd November 1941	0530	1730	2330
54 Veraval	20°54'	70°22'	17	13th October 1941	0530*	1130	1730* 2330
55 Visakhapatnam	17°43'	83°14'	10	24th September 1928	0530	1730	2330

*Radiowind ascents.

†Naval Meteorological Office.

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level.

January 1958 (Pausa II—Magha II, 1879 Saka)

Station	AGARTALA								AHMEDABAD															
	0530				1730				2330				0530				1730				2330			
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0.8	0.7	135	31	1.9	0.8	331	31	1.3	0.8	138	31	4.3	3.1	030	31	5.7	3.3	355	31	4.1	2.9	001
0.15 a.g. . .	27	5.4	1.3	025	30	6.4	3.7	316	31	7.5	1.3	307	31	15.2	9.4	048	31	8.0	4.6	009	31	13.7	9.1	006
0.3 a.m.s.l. . .	27	4.9	2.0	351	30	5.4	3.4	291	31	7.1	2.7	285	31	14.3	8.1	050	31	7.7	4.0	004	31	12.9	8.4	007
0.6 „ . .	27	5.4	2.6	338	30	4.6	3.4	259	31	6.6	4.0	277	31	11.0	3.9	032	31	7.3	3.2	001	31	10.5	6.2	007
0.9 „ . .	27	5.9	3.2	307	30	5.4	4.3	247	31	6.9	5.1	269	31	9.0	2.4	310	31	7.2	2.6	006	31	8.7	4.2	355
1.5 „ . .	27	10.7	9.2	289	30	9.0	7.1	263	31	10.1	7.9	269	31	9.4	4.6	248	31	8.2	3.2	294	31	7.6	1.8	273
2.1 „ . .	26	17.1	15.8	291	29	15.2	13.8	280	31	14.4	12.8	278	31	11.8	7.1	250	31	11.4	7.1	266	31	10.5	5.7	250
3.0 „ . .	23	25.3	23.3	284	26	22.6	21.3	279	31	22.1	20.6	279	30	16.5	12.2	276	31	17.6	12.4	276	30	14.7	10.9	280
3.6 „ . .	11	27.3	25.7	268	14	23.2	20.3	281	11	23.4	19.6	281	29	19.5	15.6	277	30	20.8	15.2	278	27	18.9	15.8	282
4.5 „ . .	3	23.7	23.2	287	5	20.6	17.6	283					23	23.6	20.3	278	28	24.9	20.4	283	25	21.4	19.4	284
5.4 „ . .	2	31.0	30.0	280	3	23.0	20.8	36					18	27.4	23.2	284	28	30.4	25.8	283	11	24.1	22.3	280
6.0 „ . .	1	37.0	37.0	275	2	28.5	27.6	324					11	29.2	21.2	297	27	34.4	29.9	286	8	22.0	20.6	284
7.2 „ . .													3	27.3	24.2	285	22	41.7	36.7	284	1	19.0	19.0	285
9.0 „ . .													14	56.1	46.9	288								
Station	AMAUASI								AMBALA															
Time in I.S.T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	3.3	1.5	335	31	3.8	2.8	305	31	3.2	1.4	307	31	4.0	1.2	343	31	3.4	1.9	295	31	3.3	2.5	322
0.15 a.g. . .	31	10.2	4.5	348	31	8.4	4.7	303	31	10.2	5.3	328	31	11.9	6.6	342	30	9.1	5.5	306	31	12.7	8.9	335
0.3 a.m.s.l. . .	31	10.1	5.5	345	31	8.6	4.6	300	31	10.2	5.5	330	31	6.0	2.0	003	30	4.8	2.9	296	31	5.4	3.3	335
0.6 „ . .	31	9.9	4.4	321	31	9.3	4.5	305	31	10.1	5.6	320	31	11.7	6.2	332	30	10.7	5.9	307	31	11.7	8.3	331
0.9 „ . .	31	10.3	6.5	297	31	9.8	5.3	252	31	9.7	6.6	305	31	10.4	6.2	324	30	11.0	5.2	315	31	10.7	5.1	330
1.5 „ . .	31	12.4	17.3	290	31	12.0	9.6	300	30	11.2	9.5	294	31	10.3	5.4	308	30	12.3	5.2	324	31	10.2	4.8	312
2.1 „ . .	31	15.7	15.9	294	31	15.6	13.8	295	30	14.5	13.5	283	31	12.4	6.6	293	30	12.9	5.5	333	31	11.3	5.2	297
3.0 „ . .	21	19.4	18.1	284	27	20.1	18.0	285	21	19.1	17.9	288	27	11.1	4.9	291	29	12.8	7.4	300	30	11.4	7.3	290
3.6 „ . .	2	15.0	13.8	283	23	23.0	21.2	287	3	21.6	18.9	267	14	10.2	6.3	276	28	14.4	10.0	293	14	11.9	9.6	277
4.5 „ . .					15	25.9	25.0	284					4	19.5	17.4	272	22	17.9	15.5	285	4	17.0	14.6	281
5.4 „ . .					11	29.4	28.3	283					3	18.0	17.0	288	18	24.9	20.9	284	4	20.0	17.5	262
6.0 „ . .					7	37.6	36.4	279					2	14.5	14.5	300	15	27.4	22.2	284	4	26.7	14.2	260
7.2 „ . .					1	21.0	21.0	295					6	44.8	41.7	296					3	71.7	71.7	296

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

January 1958 (Pausa 11—Magha 11, 1879 Saka)

Station	AMRITSAR								ANANTAPUR								ASANSOL							
	0530*				1730*				0530				1730				2330				0530			
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	2.1	1.2	351	31	3.0	1.7	345	31	3.2	2.5	100	31	7.9	7.5	082	31	8.8	8.5	105	31	2.3	2.0	319
0.15 a.g. . .	30	3.1	2.2	347	31	3.3	2.0	342	31	9.5	8.1	115	31	9.7	9.4	080	31	14.5	14.2	108	29	8.7	4.9	005
0.3 a.m.s.l. . .	30	3.5	2.8	350	31	3.4	2.2	333													29	8.8	4.6	009
0.6 „ . .	30	7.7	5.2	340	31	7.3	4.0	325	31	10.6	9.2	116	31	9.6	9.3	082	31	15.3	15.0	110	29	8.8	4.4	338
0.9 „ . .	30	8.1	5.1	330	31	6.9	3.2	315	31	12.9	11.8	115	31	9.6	9.1	087	31	14.5	14.1	111	29	8.7	6.3	302
1.5 „ . .	30	9.0	3.6	313	31	8.1	3.9	311	31	11.2	9.2	086	31	9.3	8.5	084	31	9.0	7.7	087	29	12.2	11.2	283
2.1 „ . .	30	10.0	5.0	279	31	10.0	3.3	280	31	8.8	6.7	058	31	9.0	6.9	087	31	8.3	5.2	057	28	17.0	15.7	291
3.0 „ . .	30	13.4	6.8	258	31	11.1	6.3	254	31	8.6	2.7	082	30	9.7	3.0	087	30	8.3	1.7	055	12	21.1	20.6	300
3.6 „ . .	30	17.9	12.1	262	31	13.8	9.2	262	29	10.1	1.9	291	28	11.3	1.7	332	28	9.6	3.5	325				
4.5 „ . .	30	20.3	16.2	266	31	21.2	17.1	269	24	12.7	7.8	263	25	13.1	5.6	310	22	12.8	5.6	276				
5.4 „ . .	29	29.8	25.3	270	31	28.3	23.6	272	16	17.7	10.5	265	23	16.0	10.8	290	19	16.4	10.6	286				
6.0 „ . .	29	35.0	30.2	270	30	33.0	28.4	273	9	19.0	15.3	266	22	20.1	14.7	294	15	19.2	16.7	270				
7.2 „ . .	28	42.7	37.5	272	29	40.8	34.5	279	5	31.2	3.6	274	17	26.7	19.5	280	4	28.7	28.2	274				
9.0 „ . .	24	53.1	45.8	273	26	53.8	47.3	271	1	48.0	48.0	255	15	43.8	39.3	269								
Station	ASANSOL								BAGHDOGRA								BAIRAGARH							
Time in I.S.T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1.4	1.1	304	31	2.5	1.2	343	31	1.9	1.8	358	31	2.5	1.1	258	31	2.4	2.3	003	31	2.7	1.8	059
0.15 a.g. . .	31	7.0	4.9	315	31	12.1	3.8	003	30	5.5	4.0	073	31	6.1	3.5	243	31	5.5	2.9	053	31	11.0	1.2	038
0.3 a.m.s.l. . .	31	7.1	5.2	315	31	12.0	6.0	360	30	5.5	4.2	083	31	6.1	3.5	240	31	5.5	2.5	060				
0.6 „ . .	31	7.0	5.2	309	31	10.2	4.0	336	30	5.8	4.1	091	31	6.5	4.1	240	31	5.5	0.4	353	31	10.9	7.1	079
0.9 „ . .	30	6.9	5.6	296	31	8.7	4.2	279	30	5.3	3.5	082	31	7.1	4.0	237	31	5.4	1.1	302	31	9.2	2.8	074
1.5 „ . .	30	9.9	8.5	284	31	11.5	10.0	271	30	6.3	0.6	029	31	6.5	3.1	256	31	6.1	0.7	226	31	8.9	5.6	275
2.1 „ . .	30	15.9	14.6	289	30	17.2	16.0	277	29	10.1	6.2	271	29	7.4	2.9	273	31	7.0	2.6	266	31	13.9	10.5	267
3.0 „ . .	13	19.2	17.8	292	17	20.5	19.3	290	26	22.4	20.5	273	21	14.1	11.8	280	23	14.9	13.3	281	30	18.9	15.4	275
3.6 „ . .	1	35.0	35.0	250	3	15.3	14.8	272	16	21.2	18.6	287	10	18.0	16.7	279	19	21.0	20.6	285	21	17.6	15.2	289
4.5 „ . .	.	.	.	.	1	39.0	39.0	250	6	19.0	14.7	291	2	17.5	17.5	270	4	15.2	14.2	308	8	21.1	20.7	294
5.4 „ . .	.	.	.	.					2	11.5	10.5	294	1	22.0	22.0	245	1	15.0	15.0	290				
6.0 „ . .	.	.	.	.					1	15.0	15.0	300												
7.2 „ . .	.	.	.	.					1	26.0	26.0	300												
9.0 „ . .	.	.	.	.																

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

January 1958 (Pausa II—Magha IX, 1879 Saka)

Station	BAIRAGARH								BAMRAULI															
	1730				2330				0530*				1130				1730*				2330			
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . . .	31	4.1	2.0	309	31	2.8	1.7	016	31	1.8	0.1	349	31	3.8	1.6	278	31	2.3	1.4	330	31	1.1	0.6	030
0.15 a.g. . .	31	7.2	3.9	306	31	11.3	6.0	025	30	5.6	2.2	343	30	5.7	2.6	268	30	5.1	3.6	321	31	10.4	5.3	010
0.3 a.m.s.l. . .									30	6.5	1.8	337	30	5.9	2.4	262	30	5.9	3.3	320	31	10.2	5.1	007
0.6 „ „ .	31	6.9	3.7	306	31	11.3	5.8	027	30	8.6	2.5	318	29	7.3	4.0	264	30	7.4	4.7	330	31	10.6	4.2	338
0.9 „ „ .	31	6.9	3.8	297	31	8.7	3.8	010	30	9.1	5.3	294	29	10.0	7.7	274	30	8.9	6.7	284	31	11.0	6.6	294
1.5 „ „ .	31	7.5	4.3	281	31	8.0	4.2	275	30	13.7	12.3	290	29	13.4	11.7	292	30	13.0	11.0	279	31	13.9	11.5	282
2.1 „ „ .	30	9.8	6.7	275	31	12.1	8.0	255	30	16.6	15.2	290	28	16.5	14.5	290	30	15.9	14.1	279	31	17.1	14.8	280
3.0 „ „ .	30	17.3	14.5	270	30	16.9	14.1	267	30	21.3	19.6	277	28	19.8	18.3	289	30	20.3	19.0	281	23	20.7	16.5	275
3.6 „ „ .	27	23.0	19.6	277	21	16.7	14.5	283	28	24.9	23.2	277	26	24.7	23.3	284	30	24.8	23.4	279	6	21.5	20.6	281
4.5 „ „ .	26	30.7	27.8	279	5	21.0	19.5	300	28	29.4	27.1	277	20	30.9	29.5	281	30	31.9	29.7	275	1	23.0	23.0	285
5.4 „ „ .	20	32.7	29.8	279	1	27.0	27.0	265	26	35.5	34.2	277	18	37.3	34.0	277	30	36.3	33.3	274				
6.0 „ „ .	16	33.8	30.5	288					26	39.6	36.9	277	16	41.4	39.6	283	30	39.2	36.3	273				
7.2 „ „ .	8	38.1	35.0	284					26	47.6	44.2	275	5	36.0	30.7	287	30	47.2	44.6	272				
9.0 „ „ .	4	51.0	48.4	273					22	60.7	55.7	274	3	58.7	57.1	261	29	63.5	57.8	270				
Station	BANGALORE								BAREILLY								BEGUMPET							
Time in I.S.T.	0530				1730				2330				0530				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . . .	31	7.2	6.7	099	31	7.4	6.4	108	31	9.6	9.1	099	31	2.8	1.3	314	31	3.4	2.4	306	31	0.5	0.1	041
0.15 a.g. . .	29	14.1	13.5	099	31	8.7	6.9	100	30	17.8	17.3	106	31	8.9	6.4	327	31	7.9	5.8	294	31	11.4	8.9	122
0.3 a.m.s.l. . .													31	8.3	5.9	326	31	7.5	5.6	295				
0.6 „ „ .													31	9.3	6.5	314	31	9.5	6.4	297	31	7.7	5.3	111
0.9 „ „ .													31	9.0	6.5	300	31	9.5	6.6	297	31	13.3	10.6	114
1.5 „ „ .	28	12.9	9.9	093	31	9.7	8.1	099	30	15.4	13.0	107	31	12.0	9.8	302	29	11.5	9.2	296	30	9.5	5.7	166
2.1 „ „ .	27	9.0	6.3	073	31	8.7	7.1	088	30	7.8	3.4	068	29	13.9	12.5	297	28	13.3	12.0	296	30	9.2	4.1	0.8
3.0 „ „ .	25	9.6	1.1	046	28	8.5	1.4	207	27	9.6	2.9	033	25	17.3	15.4	282	27	18.3	16.7	295	29	9.2	2.6	328
3.6 „ „ .	25	10.3	0.3	224	26	11.2	4.1	294	21	11.0	2.5	345	10	20.8	19.6	263	25	21.2	19.2	292	29	10.3	4.0	311
4.5 „ „ .	23	11.5	4.6	289	21	12.1	6.1	282	17	9.5	3.6	293	4	24.7	24.6	269	20	22.7	20.7	288	28	14.6	9.8	290
5.4 „ „ .	21	12.5	7.7	282	21	14.3	8.7	294	13	11.9	6.8	300					19	29.5	27.8	286	22	20.3	14.8	280
6.0 „ „ .	12	16.7	11.6	286	21	16.8	12.4	292	11	16.0	9.8	294					16	35.4	33.5	284	14	23.7	21.2	258
7.2 „ „ .	7	25.3	20.7	269	17	21.4	20.2	278	6	25.0	23.8	256					6	37.2	31.5	287	3	27.3	23.8	253
9.0 „ „ .	2	33.0	15.4	280	17	36.1	26.7	262	1	46.0	46.0	255					1	54.0	54.0	255	1	43.0	43.0	305

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

January 1958 (Pausa 11—Magha 11, 1879 Saka)

Station	BEGUMPET				BHAGALPUR				BHUBANESHWAR							
	1730		2330		0530		1730		0530		1730					
Time in I. S. T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Ht. in Km.																
Surface . .	31	3.1	2.3	082	31	1.5	1.1	071	31	1.9	0.9	256	31	2.8	2.0	289
0.15 a.g. . .	31	7.5	5.5	085	31	13.1	10.8	100	30	6.9	2.1	321	31	7.3	5.6	299
0.3 a.m.s.l. . .									30	6.4	2.2	324	30	7.1	5.9	297
0.6 „ . .	31	6.7	5.0	086	31	8.6	6.9	090	30	6.0	3.2	304	30	8.2	6.1	291
0.9 „ . .	31	7.0	5.2	092	31	13.3	11.2	103	30	7.9	6.3	291	30	9.4	7.9	274
1.5 „ . .	31	6.8	5.0	091	31	9.2	5.8	085	30	15.5	14.6	287	27	13.0	12.0	279
2.1 „ . .	31	6.5	2.9	070	31	7.8	2.0	034	27	19.3	18.7	288	24	17.9	16.8	285
3.0 „ . .	30	9.6	1.8	314	31	9.7	3.3	319	17	22.8	22.3	292	15	19.5	18.6	282
3.6 „ . .	30	12.1	4.8	295	21	10.2	4.5	290	4	21.3	20.5	282	5	26.0	23.8	275
4.5 „ . .	29	16.3	11.8	255	14	13.6	7.0	295	1	34.0	34.0	270	1	56.0	56.0	285
5.4 „ . .	27	21.3	15.2	287	1	6.0	6.0	260					1	54.0	54.0	270
6.0 „ . .	25	27.7	19.6	287									1	61.0	61.0	280
7.2 „ . .	19	35.2	27.6	288									7	39.1	30.4	271
9.0 „ . .	13	48.8	46.1	274									5	53.2	48.8	294
Station	BHUBANESHWAR				BHUJ				BIKANER							
Time in I.S.T.	2330		0530		1730		2330		0530		1730					
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	2.4	0.6	204	31	0.9	0.7	343	31	3.8	2.5	360	31	1.1	0.6	327
0.15 a.g. . .	31	11.5	7.6	192	31	9.9	6.3	017	31	7.0	4.5	002	31	10.3	7.0	361
0.3 a.m.s.l. . .	31	10.9	7.2	188	31	10.6	7.8	027	31	6.9	4.5	360	31	10.7	7.8	005
0.6 „ . .	31	7.8	4.3	198	31	11.0	6.4	031	31	7.6	4.0	353	31	11.6	8.3	021
0.9 „ . .	31	6.2	1.4	271	30	8.9	2.4	023	31	7.9	3.4	340	31	9.1	5.7	025
1.5 „ . .	31	8.5	6.1	309	30	9.0	3.0	272	31	8.1	3.8	272	31	9.5	8.4	247
2.1 „ . .	31	11.1	7.8	301	29	10.2	5.9	249	31	10.9	7.6	261	30	9.3	4.1	258
3.0 „ . .	31	13.5	11.2	283	29	15.2	11.7	271	29	15.9	13.0	271	28	13.7	10.3	273
3.6 „ . .	13	16.7	14.1	280	14	18.3	15.3	268	28	18.6	15.4	279	11	16.5	14.5	263
4.5 „ . .	1	18.0	18.0	310	5	23.0	20.2	295	28	24.1	21.4	281	4	35.7	31.5	275
5.4 „ . .	1	23.0	23.0	305	4	19.7	18.9	304	28	29.1	26.1	280	1	46.0	46.0	320
6.0 „ . .					2	22.0	17.7	280	26	32.7	30.4	278				1
7.2 „ . .									17	42.9	40.6	275				9
9.0 „ . .									3	41.3	39.2	283				2

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

January, 1958 (Pausa II—Magha, II, 1879 Saka)

Station	BIKANER				CHIKALTHANA								COCHIN											
	2330				0530				1730				2330				0530				1730			
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Ht. in Km.																								
Surface . .	31	2.6	2.1	016	31	1.0	0.4	018	31	2.1	0.9	236	31	1.1	0.5	035	31	1.8	1.7	058	31	6.5	5.7	275
0.15 a.g. . .	30	11.6	8.0	044	31	10.3	6.3	072	31	6.3	1.7	230	31	10.9	8.3	054	31	8.2	6.7	064	28	8.8	7.3	282
0.3 a.m.s.l. . .	30	10.4	7.5	040													31	6.9	4.7	057	28	9.1	7.2	284
0.6 „ . .	30	10.0	6.0	037													31	6.5	4.3	072	28	6.0	3.6	327
0.9 „ . .	30	7.8	2.9	033	31	12.0	6.9	087	31	6.2	1.6	236	31	11.5	8.3	062	31	6.9	5.1	085	28	6.1	2.4	038
1.5 „ . .	30	7.4	3.9	233	31	7.4	2.6	142	31	5.3	0.3	273	31	7.3	3.2	110	31	7.4	5.0	068	28	9.0	7.7	077
2.1 „ . .	30	12.1	8.6	261	31	7.2	4.8	230	31	6.0	0.4	343	31	6.8	3.9	190	31	8.3	4.3	077	28	9.3	6.0	089
3.0 „ . .	30	17.6	9.7	282	31	10.6	6.5	264	31	9.7	5.6	266	31	9.2	5.8	248	29	7.2	0.6	045	28	7.1	0.7	357
3.6 „ . .	26	20.3	17.6	284	26	14.9	10.7	279	28	14.1	9.1	275	23	14.0	9.0	276	28	6.9	3.0	067	27	6.9	1.3	338
4.5 „ . .	9	28.6	26.1	268	10	20.4	15.8	284	26	20.1	16.2	278	7	17.9	8.1	301	23	8.2	3.9	075	27	8.3	2.8	043
5.4 „ . .					1	22.0	22.0	275	26	24.8	21.5	281	2	23.5	22.3	276	16	7.3	3.4	108	25	8.3	3.3	022
6.0 „ . .									26	29.1	26.2	277					9	8.5	4.1	092	19	10.2	2.8	352
7.2 „ . .									17	33.9	31.2	284					4	14.7	1.9	327	5	15.0	9.1	261
9.0 „ . .									2	44.0	42.7	279									1	23.0	23.0	245
Station	COCHIN				DARJEELING								DUM DUM											
Time in I. S. T.	2330				0830				1730				0530*				1130				1730*			
Ht. in km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0.7	0.6	076	31	1.6	0.4	238	31	2.7	2.2	253	31	1.5	0.3	238	31	3.8	1.5	283	31	1.6	0.6	272
0.15 a.g. . .	28	6.0	3.6	061	12	3.3	2.1	148	10	6.8	5.3	245	31	7.5	3.5	303	31	6.0	2.2	313	31	5.1	2.9	279
0.3 a.m.s.l. . .	28	6.1	3.4	057									31	7.1	3.4	306	31	6.0	3.1	310	31	4.8	2.7	280
0.6 „ . .	28	7.1	3.6	074									31	7.1	3.7	291	31	6.8	4.4	288	31	5.0	2.7	285
0.9 „ . .	28	7.0	4.3	082									31	8.0	5.4	303	31	7.9	5.8	286	31	6.4	4.8	297
1.5 „ . .	28	7.3	5.5	102									31	10.5	8.8	302	28	12.8	11.1	297	31	9.4	8.0	307
2.1 „ . .	28	7.5	5.6	098									31	12.7	11.0	294	28	16.0	14.6	298	31	12.4	11.5	302
3.0 „ . .	28	7.5	1.6	055	11	12.2	3.5	318	9	7.4	5.6	290	31	17.9	17.1	287	24	19.8	18.5	287	31	19.0	17.9	290
3.6 „ . .	17	8.6	1.8	014	9	10.8	3.8	304	7	14.3	12.4	266	..	..	..	..	22	22.3	20.8	282	..	..	..	..
4.5 „ . .	4	8.0	1.4	177	7	11.9	8.9	271	3	8.3	5.8	276	31	28.0	26.3	281	19	28.2	26.3	274	31	28.5	27.1	283
5.4 „ . .					6	19.2	18.5	294	2	10.5	9.7	266	31	31.7	29.8	319	18	35.4	32.7	273	31	30.9	29.3	280
6.0 „ . .					5	19.8	18.2	293					31	36.7	31.9	309	15	38.3	35.9	273	31	34.6	32.9	280
7.2 „ . .					1	17.0	17.0	305					31	40.9	38.3	275	7	42.1	40.5	276	31	39.2	37.2	275
9.0 „ . .													30	57.2	52.7	276	1	78.0	78.0	270	31	51.4	48.5	274

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

January 1958 (Pausa 11—Magha 11, 1879 Saka)

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

January 1958 (Pausa II—Magha II, 1879 Saka)

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

January 1958 (Pausa 11—Magha 11, 1879 Saka)

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

January 1958 (Pausa 11—Magha 11, 1879 Saka)

Station	JHARSUGUDA								JODHPUR															
	1730				2330				0530*				1130				1730*				2330			
Time in I. S. T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	3.0	2.3	213	31	1.7	0.6	056	31	5.2	4.8	039	31	3.2	2.1	062	31	4.3	1.2	308	31	5.3	4.0	018
0.15 a. g. .	31	6.0	4.1	219	31	6.1	1.7	216	30	5.8	4.7	031	31	5.0	2.9	069	31	4.6	1.4	279	31	14.2	9.2	032
0.3 a.m.s.l. .	31	6.0	4.1	213	31	5.5	1.2	149	30	5.7	5.0	037	31	4.9	3.1	062	31	4.6	1.5	320	31	11.3	6.9	028
0.6 „ .	31	6.0	3.8	236	31	6.9	3.0	248	31	6.1	3.1	012	31	5.9	2.9	068	31	5.2	2.1	279	31	11.3	6.8	038
0.9 „ .	31	5.2	3.2	255	31	7.0	2.8	261	30	6.6	2.2	313	31	6.3	1.0	025	31	5.9	2.2	289	31	8.2	1.2	065
1.5 „ .	31	7.2	5.2	289	31	8.3	4.6	297	30	8.9	5.6	267	31	7.4	4.0	265	31	6.5	3.4	272	30	8.0	4.1	218
2.1 „ .	31	11.3	9.8	299	31	10.4	8.8	296	30	12.0	9.2	270	31	11.1	8.9	257	31	10.5	7.8	263	29	10.7	8.4	262
3.0 „ .	31	16.0	14.2	288	29	16.9	14.9	285	29	18.1	14.1	266	30	16.1	13.0	263	31	16.3	13.9	269	28	16.3	13.9	268
3.6 „ .	31	20.6	18.1	287	16	16.8	14.4	287	28	23.0	18.9	272	28	20.9	16.7	272	30	20.9	18.3	268	7	17.9	15.1	273
4.5 „ .	24	2.70	23.4	290					28	30.3	27.4	273	26	25.4	21.5	276	30	28.0	24.4	269	2	19.5	18.3	313
5.4 „ .	16	31.1	28.1	280					27	37.0	34.7	270	26	29.7	26.3	274	30	34.7	31.4	270				
6.0 „ .	8	38.5	34.8	277					27	41.9	39.2	270	24	34.8	31.6	278	30	39.0	35.5	273				
7.2 „ .									26	51.1	48.5	273	18	39.5	36.1	273	29	49.3	45.1	273				
9.0 „ .									23	64.2	61.7	270	4	46.5	45.9	272	22	57.9	57.2	277				
Station	MADRAS												MANGALORE											
Time in I. S. T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	4.8	3.0	350	31	7.7	7.2	074	31	8.8	7.4	053	31	3.5	2.4	025	31	7.3	6.8	079	31	7.6	6.5	292
0.15 a. g. .	31	9.1	7.5	040	31	9.0	8.5	072	31	11.7	10.7	060	31	11.1	10.2	063	31	11.3	8.6	058	31	9.5	8.7	292
0.3 a.m.s.l. .	31	9.1	7.9	053	31	9.2	8.5	065	31	11.5	10.5	061	31	12.3	11.5	067	31	9.8	6.3	041	31	9.2	8.4	295
0.6 „ .	31	9.6	8.7	064	31	9.1	8.5	064	31	10.7	9.9	063	31	12.5	11.8	072	31	8.8	4.5	037	31	5.7	3.1	333
0.9 „ .	31	11.0	9.1	072	30	8.8	8.3	056	31	10.2	9.2	062	31	12.2	11.4	072	31	8.4	3.8	067	31	5.4	4.0	062
1.5 „ .	31	10.6	7.8	070	29	10.0	8.8	064	31	9.3	7.0	067	29	9.8	8.0	067	31	9.6	6.7	13	31	11.8	11.3	083
2.1 „ .	30	9.5	5.6	060	18	10.8	7.1	058	31	8.5	3.4	055	28	9.1	4.3	049	31	8.9	1.1	112	31	11.4	8.3	077
3.0 „ .	30	9.5	0.5	051	13	9.9	1.7	264	31	10.6	1.3	34	27	9.8	1.7	345	21	8.2	2.3	298	31	9.0	1.3	108
3.6 „ .	30	10.5	1.7	290	13	9.7	2.6	265	31	10.8	4.1	297	24	9.1	1.8	352	10	11.9	5.8	290	31	9.8	0.5	049
4.5 „ .	29	11.4	4.1	300	9	11.2	9.0	281	31	11.5	6.6	288	22	10.3	3.0	305	3	16.3	14.8	271	31	12.0	2.9	285
5.4 „ .	29	14.6	8.9	299	8	17.1	15.2	282	31	14.8	10.1	287	12	11.3	8.5	283	2	14.5	14.1	280	31	13.2	6.9	288
6.0 „ .	29	18.7	13.4	281	8	18.7	17.2	273	31	18.4	13.9	280	6	15.7	13.7	276	1	28.0	28.0	280	31	16.4	11.0	284
7.2 „ .	28	26.4	22.9	264	7	25.0	22.1	282	31	26.2	22.3	268								30	22.7	18.2	274	
9.0 „ .	27	40.4	35.7	260	6	39.3	34.7	259	26	39.0	29.8	262								23	35.7	30.9	267	

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS.

Winds up to 9.0 Km. above mean sea level

January 1958 (Pausa 11—Magha 11, 1879 Saka)

Station	MANGALORE				MINICOY								MOHANBARI											
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3.1	2.3	031	31	3.0	2.3	029	31	4.0	3.3	033	31	3.9	3.1	035	31	0.5	0.5	044	31	0.7	0.7	45
0.15 a.g.	31	7.7	6.4	340	31	6.9	4.4	041	31	8.3	6.9	037	31	9.0	7.5	037	27	7.7	7.4	061	30	6.6	5.1	050
0.3 a.m.s.l.	31	7.7	6.6	334	31	6.7	4.3	049	31	8.5	7.0	036	31	8.8	7.5	040	27	7.5	7.0	058	30	6.7	5.1	050
0.6 „	31	7.0	5.5	331	31	7.3	5.6	065	31	8.9	7.3	040	31	8.9	7.8	047	27	6.7	4.9	048	30	6.3	4.4	057
0.9 „	31	6.1	3.2	005	31	8.2	7.0	075	31	8.1	6.5	060	31	8.6	7.5	067	27	6.1	3.0	058	30	5.4	2.7	061
1.5 „	31	9.3	7.9	083	31	9.8	8.2	085	30	8.2	5.7	083	31	9.4	7.2	086	25	5.3	0.9	174	30	6.0	1.8	223
2.1 „	31	13.7	12.7	093	30	8.5	5.5	084	29	6.5	2.3	061	30	8.5	6.2	082	24	5.5	1.5	201	25	9.1	7.4	220
3.0 „	30	9.1	4.2	107	24	8.5	3.1	113	28	7.1	1.1	054	24	7.7	4.3	104	23	9.1	4.5	236	18	9.7	5.7	213
3.6 „	25	9.5	1.1	202	16	7.4	2.0	072	27	7.7	2.3	099	19	7.7	4.1	082	10	14.9	13.1	244	10	7.2	1.4	231
4.5 „	22	10.9	5.3	264	9	8.2	2.6	074	26	8.6	4.8	095	14	10.1	7.1	079	8	24.1	21.4	260	1	11.0	11.0	325
5.4 „	16	13.1	8.8	276	1	10.0	10.0	320	24	10.3	5.3	051	6	9.2	3.5	076	3	33.3	33.2	245				
6.0 „	11	12.0	9.3	281					24	10.9	4.6	033	1	11.0	11.0	255	2	39.0	38.9	247				
7.2 „	1	32.0	32.0	275					18	12.2	7.0	264												
9.0 „									12	21.2	18.6	240												
Station	MOHANBARI				MUSSOORIE								NAGPUR											
Time in I.S.T.	2330				0830				1730				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0.6	0.5	058	31	2.9	1.0	345	31	3.1	2.6	230	30	2.8	1.9	338	31	3.3	0.8	098	30	3.2	0.6	066
0.15 a.g.	30	7.2	5.3	082	27	8.3	3.6	347	22	3.7	1.5	234	29	4.5	1.7	017	31	5.0	0.3	115	30	3.8	0.5	095
0.3 a.m.s.l.	30	7.3	6.7	056																				
0.6 „	30	7.3	5.6	058									29	5.8	2.9	040	31	5.2	1.5	129	30	4.4	0.4	135
0.9 „	30	6.0	3.6	063									29	7.4	1.1	146	31	6.4	0.9	186	30	5.2	0.5	201
1.5 „	30	6.3	1.7	200									29	8.6	2.3	293	31	8.5	2.6	291	30	6.3	1.8	291
2.1 „	27	9.2	7.2	249	27	7.0	2.3	348	22	5.3	3.5	223	29	9.9	5.9	282	31	9.7	6.6	286	30	8.4	5.8	280
3.0 „	16	8.9	6.5	254	25	10.1	4.6	291	22	10.0	3.6	307	30	13.5	10.1	274	31	13.3	9.9	283	30	13.1	10.6	280
3.6 „	3	6.1	4.1	282	24	13.9	9.6	300	22	12.9	6.8	302	29	17.0	13.5	275	31	16.8	12.1	283	30	16.9	14.0	278
4.5 „					21	18.8	15.3	295	19	17.0	14.2	295	28	23.6	19.3	277	28	22.7	18.6	282	30	23.0	11.6	280
5.4 „					16	26.1	22.2	287	17	23.7	20.7	294	26	28.4	27.5	271	26	28.3	24.7	279	30	28.3	24.8	276
6.0 „					15	29.6	26.3	286	13	25.8	23.6	290	26	32.0	28.6	271	26	32.4	29.2	279	30	32.0	28.1	275
7.2 „					11	38.9	33.9	285	7	38.5	33.1	293	26	39.6	36.8	271	24	41.6	38.0	276	30	39.5	36.7	275
9.0 „					5	49.6	39.7	288	3	74.3	71.8	291	25	55.6	51.0	271	6	61.3	56.3	285	29	53.0	48.4	271

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9,000 Km. above mean sea level

January 1958 (Pausa 11—Magha 11, 1879 Saka)

Station	NAGPUR				NANPARA				NEW DELHI							
	2330		0530		1730		0530*		1130		1730*					
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Ht. in Km. ¹	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	4.1	0.9	060	31	1.9	0.9	319	31	1.2	0.6	284	31	4.6	2.7	325
0.15 a.g.	31	11.6	4.6	105	30	7.9	5.2	325	31	7.6	5.1	285	31	11.5	6.9	321
0.3 a.m.s.l.					30	7.9	5.6	324	31	7.7	5.4	285	31	10.3	6.7	326
0.6 „	31	11.3	4.3	118	30	8.2	5.3	317	31	8.1	5.4	274	31	10.5	7.2	321
0.9 „	31	8.9	2.7	138	30	9.2	5.3	311	31	8.7	5.9	300	31	10.3	8.0	312
1.5 „	31	7.5	2.4	284	30	11.1	8.6	305	31	12.5	7.7	305	31	12.7	10.2	297
2.1 „	31	8.5	5.9	285	28	13.3	10.5	295	30	13.1	10.7	301	31	14.8	10.8	293
3.0 „	29	13.3	10.2	277	21	16.4	15.2	293	14	12.5	11.4	302	31	17.6	14.1	284
3.6 „	11	14.6	12.0	322	9	21.1	18.7	278	5	14.4	14.0	301	31	19.4	16.1	280
4.5 „	2	21.0	19.9	316	1	4.0	4.0	280	2	14.0	13.7	250	31	25.4	22.5	279
5.4 „													31	34.4	31.0	278
6.0 „													31	38.2	34.9	277
7.2 „													30	49.9	47.0	279
9.0 „													28	63.9	60.0	280
													20	47.0	44.0	283
													12	57.7	51.7	277
													29	64.4	58.3	278
Station	NEW DELHI				POONA				PORT BLAIR							
Time in I.S.T.	2330		0530		1730		2330		0530*		1130					
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2.4	1.9	319	31	0.5	0.3	207	31	2.0	0.3	332	31	0.9	0.4	215
0.15 a.g.	31	11.9	4.8	333	31	4.9	1.9	110	31	5.2	0.7	022	31	7.1	1.3	333
0.3 a.m.s.l.	31	10.8	4.4	332									31	11.5	11.0	045
0.6 „	31	11.9	6.0	311	31	2.9	1.7	224	31	4.3	0.8	009	31	3.4	1.7	236
0.9 „	31	11.1	7.1	305	31	7.9	4.3	086	31	5.3	0.6	066	31	9.6	3.3	012
1.5 „	31	11.9	9.2	299	31	10.4	7.3	111	31	4.8	1.3	114	31	8.6	4.5	097
2.1 „	31	14.0	11.6	289	31	8.0	6.5	143	31	5.1	1.7	164	31	9.3	7.1	115
3.0 „	28	16.0	13.0	276	30	9.7	4.4	263	31	9.2	2.5	261	29	8.8	1.7	179
3.6 „	20	18.2	15.5	284	30	13.0	7.9	275	29	12.2	6.7	285	28	11.7	6.1	283
4.5 „	8	19.6	16.3	277	8	15.0	8.5	287	29	17.3	12.4	285	11	16.8	11.3	256
5.4 „									28	23.0	17.9	278	1	24.0	24.0	235
6.0 „									26	27.8	24.3	281				
7.2 „									20	34.4	32.4	275				
9.0 „									9	53.8	51.8	265				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

January 1958 (Pausa II—Magha II, 1879 Saka)

Station	PORT BLAIR				RAIPUR				RAXAUL							
	1730*		2330		0530		1730		2330		0530					
Time in I. S. T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	6.8	6.3	056	31	6.5	6.0	048	31	1.7	0.6	014	31	2.0	1.0	322
0.15 a. g. .	31	12.3	11.8	051	31	10.3	9.5	049	31	8.8	3.5	061	31	5.3	2.3	313
0.3 a. m. s. l. .	31	12.9	12.4	053	31	10.2	9.5	051					31	8.7	1.8	106
0.6 „ .	31	12.7	11.7	057	31	10.0	9.5	060	31	9.4	3.0	070	31	5.6	2.5	298
0.9 „ .	31	12.1	11.0	069	31	9.7	9.0	075	31	8.4	1.4	059	31	5.7	2.0	292
1.5 „ .	31	11.3	7.8	093	28	9.8	7.4	096	30	7.3	3.6	315	31	6.9	3.3	297
2.1 „ .	31	11.9	5.5	110	22	9.1	3.1	116	30	10.8	8.4	310	30	9.0	6.0	302
3.0 „ .	31	10.9	1.6	133	21	9.2	1.2	152	28	13.8	12.3	299	29	14.4	11.6	290
3.6 „ .	31	11.1	2.6	204	12	7.7	2.0	281	23	17.3	15.2	290	27	16.7	13.1	283
4.5 „ .	30	11.3	2.7	179	10	10.3	5.0	241	7	19.1	17.2	278	23	22.8	18.2	288
5.4 „ .	29	12.7	4.3	268	6	11.3	9.2	261	3	31.3	27.0	280	21	28.6	23.5	282
6.0 „ .	28	13.4	6.9	260	5	8.8	8.5	268	2	41.5	39.8	310	18	34.5	29.2	280
7.2 „ .	27	19.0	12.5	268	1	10.0	10.0	225	2	40.5	38.2	297				
9.0 „ .	25	30.2	22.7	258	1	11.0	11.0	275	1	45.0	45.0	280				
Station	RAXAUL				SANTA CRUZ								TEZPUR			
Time in I. S. T.	1730		0530*		1130		1730*		2330		0530					
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1.2	0.7	274	31	5.3	3.8	030	31	3.7	2.2	064	31	8.0	6.6	325
0.15 a. g. .	31	8.4	6.5	268	29	10.7	8.1	036	31	5.3	3.9	064	30	11.7	10.1	327
0.3 a. m. s. l. .	31	8.5	6.6	269	29	10.7	8.2	040	31	6.7	5.0	082	30	10.7	8.8	329
0.6 „ .	31	8.5	6.9	272	29	9.4	6.2	043	31	7.7	4.7	100	30	8.6	4.7	342
0.9 „ .	31	9.1	6.6	282	29	8.1	4.3	046	31	7.4	3.2	103	30	6.5	2.3	011
1.5 „ .	31	10.7	5.6	293	29	7.7	2.1	135	31	8.0	4.5	186	30	7.4	1.6	139
2.1 „ .	31	14.2	9.9	294	29	8.1	4.4	178	31	9.3	5.4	197	30	8.7	3.6	148
3.0 „ .	30	20.1	19.8	285	29	10.7	5.6	240	31	11.5	4.4	267	30	10.3	2.4	259
3.6 „ .					29	13.6	9.0	264	30	13.7	7.3	278	30	12.5	4.8	270
4.5 „ .					29	18.2	13.4	276	29	18.1	12.0	287	30	16.9	10.4	275
5.4 „ .					1	28.0	28.0	295	29	21.3	15.4	276	29	23.4	19.2	282
6.0 „ .						25.0	18.6	278	29	27.2	23.8	278	30	22.3	17.6	277
7.2 „ .						34.2	29.3	274	26	34.3	32.1	276	29	33.4	29.9	270
9.0 „ .						57.3	44.8	266	11	48.5	47.0	276	25	51.4	47.8	274

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

January 1958 (pausa 11—Magha 11, 1879 Saka)

Station	TEZPUR								TIRUCHIRAPALLI								TRIVANDRUM							
	1730		2330		0530		1730		2330		0530*													
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D				
Surface . . .	31	1.3	0.9	050	31	1.5	1.2	065	31	5.2	4.5	029	31	7.3	6.8	079	31	6.2	5.7	060	31	3.1	1.8	030
0.15 a. g. . .	30	10.8	7.8	063	30	10.9	8.1	081	31	14.1	13.8	036	31	11.6	11.4	071	31	15.8	15.2	064	30	3.7	1.9	022
0.3 a. m. s. . .	30	11.4	7.8	068	30	11.3	8.4	084	30	14.8	14.5	039	31	12.1	11.9	070	31	17.1	16.6	065	30	3.9	1.8	022
0.6 „ „ „	30	9.5	5.2	072	30	7.9	3.7	099	30	15.5	15.2	055	31	13.0	12.6	066	31	17.3	16.9	064	30	4.4	2.0	047
0.9 „ „ „	29	6.0	2.0	080	30	6.2	1.9	217	30	14.3	13.7	057	30	12.6	12.2	063	30	16.4	15.5	059	30	5.1	2.8	056
1.5 „ „ „	28	7.9	4.1	233	28	8.2	3.0	261	30	11.6	8.7	058	31	11.4	9.5	059	30	12.3	10.6	046	30	6.3	2.8	064
2.1 „ „ „	23	8.0	5.5	237	22	8.2	6.3	249	29	10.1	4.3	078	31	10.0	5.3	058	29	10.4	5.2	050	30	6.8	1.6	095
3.0 „ „ „	13	8.8	5.0	250	12	9.1	6.8	245	29	7.9	0.9	105	28	10.1	1.4	349	26	8.6	0.6	164	30	6.6	1.6	108
3.6 „ „ „	8	11.9	10.3	268	6	22.2	18.0	257	26	7.0	0.5	257	28	8.3	1.4	284	24	7.6	0.6	169	30	7.1	2.8	091
4.5 „ „ „	2	13.0	13.0	335	2	18.5	18.3	276	25	8.7	1.7	020	27	8.7	2.4	009	23	8.3	1.6	049	30	8.5	4.6	071
5.4 „ „ „									16	8.7	3.9	324	26	10.0	4.5	354	14	10.6	5.6	294	29	9.6	3.7	065
6.0 „ „ „									10	10.2	8.1	296	26	12.3	6.6	335	11	13.5	10.1	274	29	10.2	3.8	346
7.2 „ „ „									1	17.0	17.0	265	24	17.4	14.6	272	6	18.3	17.8	260	29	11.1	5.7	267
9.0 „ „ „												243								22	20.2	13.4	242	
Station	TRIVANDRUM								UDAIPUR															
Time in I.S.T.	1130		1730*		2330		0530		1730		2330													
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D				
Surface . . .	31	2.2	0.9	288	31	4.7	3.7	250	31	2.6	1.6	344	C	A	L	M	31	1.6	1.1	264	31	0.3	0.2	292
0.15 a. g. . .	31	3.4	1.2	255	30	5.0	3.4	260	31	6.2	4.4	301	31	4.9	1.7	345	31	6.4	0.1	175	31	5.5	2.3	353
0.3 a. m. s. l. .	31	3.2	0.7	257	30	5.5	3.1	271	31	6.0	4.1	298												
0.6 „ „ „	31	3.3	1.7	052	30	6.1	2.5	357	31	5.3	3.1	334												
0.9 „ „ „	29	4.5	3.0	056	30	6.8	5.0	039	31	6.5	5.2	055	30	6.0	1.3	344	31	7.2	0.3	129	31	6.9	1.9	008
1.5 „ „ „	25	7.2	3.9	069	30	8.7	7.7	054	27	10.3	9.4	067	31	8.8	5.1	236	31	6.7	2.8	265	31	6.7	2.5	224
2.1 „ „ „	20	7.3	3.4	084	30	7.6	5.3	053	23	9.0	5.3	083	31	11.0	8.0	254	31	9.1	7.1	256	31	8.9	6.1	267
3.0 „ „ „	15	7.5	1.8	053	30	7.2	3.0	057	23	6.9	2.3	091	31	19.2	15.3	262	31	17.2	14.6	258	30	16.5	13.4	267
3.6 „ „ „	14	7.6	2.9	093	30	7.2	2.8	074	21	6.6	3.7	083	26	21.2	18.5	279	29	22.6	19.0	274	24	18.8	16.5	272
4.5 „ „ „	14	8.3	6.1	082	30	7.4	3.8	067	13	7.4	5.5	085	6	27.6	26.7	282	26	28.1	25.5	279	14	24.8	22.4	283
5.4 „ „ „	12	10.3	7.0	042	30	8.8	3.8	024	7	12.1	7.7	087	1	14.0	14.0	290	25	31.8	30.1	281	3	24.3	22.3	303
6.0 „ „ „	11	10.4	5.0	320	30	10.4	4.3	360	1	7.0	7.0	155	1	20.0	20.0	330	23	35.4	33.1	280				
7.2 „ „ „	9	11.8	7.5	268	30	13.8	6.3	267									18	42.6	40.9	249				
9.0 „ „ „	4	16.5	9.7	275	26	22.0	12.4	245									2	58.5	55.9	266				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

January 1958 (Pausa 11—Magha 11, 1879 Saka)

Station	VENGURLA								VERAVAL											
	0530				1130				2330				0530				1130			
Time I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Ht. in Km.																				
Surface . . .	31	1.8	1.3	620	31	4.2	3.8	257	31	2.5	2.5	03	31	8.1	7.2	029	31	6.0	3.9	025
0.15 a. g. . .	31	8.7	7.0	050	31	6.7	5.7	263	31	9.9	9.5	058	31	15.1	12.4	034	31	7.4	4.7	036
0.3 a. m. s. 1. .	31	9.5	6.7	053	31	7.5	5.9	262	31	11.0	10.3	056	31	13.8	10.5	034	31	7.6	4.8	038
0.6 . . . , , ,	31	10.6	6.2	072	31	5.5	2.1	247	31	9.7	7.4	359	31	11.2	6.5	028	31	7.4	4.3	037
0.9 . . . , , ,	31	12.1	7.1	093	31	5.5	3.1	086	31	9.0	4.4	036	31	8.4	2.9	018	31	7.3	2.8	023
1.5 . . . , , ,	31	10.2	8.5	111	31	10.5	8.8	082	31	11.4	9.0	094	31	8.4	2.3	208	31	9.1	1.7	226
2.1 . . . , , ,	31	10.4	7.6	118	31	12.9	10.9	061	31	14.0	12.6	095	31	10.9	4.3	236	31	10.5	5.4	214
3.0 . . . , , ,	31	9.6	3.0	141	31	9.5	4.7	066	31	9.2	3.7	087	31	15.6	9.7	257	29	14.1	8.1	263
3.6 . . . , , ,	25	9.0	2.8	232	31	9.9	1.1	339	22	10.0	2.4	288	31	19.5	14.1	267	29	17.5	12.6	270
4.5 . . . , , ,	11	13.6	8.5	285	29	13.3	5.9	285	7	14.1	10.6	241	31	25.5	21.1	267	25	20.5	16.7	276
5.4 . . . , , ,	3	17.3	10.6	274	28	19.7	14.3	287	7	17.6	13.1	262	31	29.8	26.5	274	24	26.1	22.8	280
6.0 . . . , , ,	3	16.3	16.0	273	28	23.2	18.8	284	6	20.7	19.5	283	31	34.4	30.7	275	24	31.4	28.7	279
7.2 . . . , , ,					23	31.9	29.6	279	1	43.0	43.0	300	31	46.3	43.5	275	21	37.5	34.9	278
9.0 . . . , , ,					15	48.1	45.7	267					29	64.4	61.3	270	15	52.0	49.2	284
Station	VERAVAL				VISAKHAPATNAM															
Time in I.S.T.	2330				0530				1730				2330							
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . . .	31	4.2	3.4	010	31	0.8	0.6	330	31	6.9	4.5	116	31	0.5	0.4	049				
0.15 a. g. . .	31	13.1	9.5	005	31	3.8	1.7	352	31	9.3	7.6	122	31	4.4	0.7	145				
0.3 a. m. s. 1. .	31	13.7	9.0	015	31	4.8	1.0	050	31	9.1	7.3	110	31	5.6	2.0	142				
0.6 . . . , , ,	31	12.6	8.5	023	31	5.5	1.9	086	31	7.1	4.5	076	31	6.7	2.8	117				
0.9 . . . , , ,	31	9.7	6.8	034	31	6.5	3.0	064	31	5.9	3.1	056	31	6.5	3.4	068				
1.5 . . . , , ,	31	7.0	3.6	089	31	7.4	3.9	054	31	7.5	4.2	357	30	7.2	4.5	030				
2.1 . . . , , ,	31	9.0	2.7	218	30	7.2	2.3	341	30	9.9	5.5	344	30	7.5	3.1	020				
3.0 . . . , , ,	29	12.7	3.8	268	30	10.0	5.9	291	30	9.5	4.1	321	29	9.8	5.5	289				
3.6 . . . , , ,	19	14.8	9.4	281	28	13.4	8.9	269	29	11.9	6.9	287	27	13.1	10.1	270				
4.5 . . . , , ,	11	17.5	11.1	281	24	17.3	13.0	271	29	16.9	12.7	276	20	19.1	18.1	273				
5.4 . . . , , ,	1	5.0	5.0	270	16	22.8	19.9	275	29	22.8	18.3	274	11	24.9	23.8	278				
6.0 . . . , , ,	1	9.0	9.0	230	9	24.6	22.7	264	28	27.5	22.6	277	3	25.7	24.9	268				
7.2 . . . , , ,									22	39.5	33.9	272								
9.0 . . . , , ,									1	59.0	59.0	270								

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9·0 Km. above mean sea level

January 1958 (Pausa 11—Magha 11, 1879 Saka)

Ht. in Km	n	V	v	D	Ht. in Km	n	V	v	D	Ht. in Km	n	V	v	D	Ht. in Km	n	V	v	D	
	AHMEDABAD					BANGALORE					GANNAVARAM					MADRAS				
	1730 hrs.					0530 hrs.					1730 hrs.					0530 hrs.*				
10.5	9	72.4	53.1	281	10.5	2	35.0	22.3	263	10.5	4	58.0	56.9	275	10.5	27	46.3	35.9	262	
12.0	2	61.0	60.9	252						12.0	1	63.0	63.0	300	12.0	25	46.6	40.8	265	
	AMBALA				10.5	16	44.2	35.8	250		GAUHATI				14.1	22	37.2	34.1	267	
	1730 hrs.				12.0	13	53.7	41.5	260		0530 hrs.*				16.2	17	24.6	20.8	272	
10.5	1	70.0	70.0	285	14.1	8	41.6	41.3	262	10.5	11	90.2	83.7	274	21.0	10	13.3	11.0	267	
12.0	1	84.0	84.0	280	16.2	6	22.7	22.2	293	12.0	8	93.6	88.1	264					NEW DELHI	
	AMRITSAR				18.0	3	22.7	19.6	289	14.1	3	74.3	72.7	272					0530 hrs.*	
	0530 hrs.*				21.0	1	78.0	78.0	323						10.5	6	46.8	42.6	275	
10.5	14	65.0	57.7	264		BAREILLY				10.5		1130 hrs.				12.0	6	50.2	45.9	279
12.0	9	79.2	75.6	275		1730 hrs.					1	52.0	52.0	295	11.1	2	55.0	53.5	275	
14.1	6	79.7	76.3	271	10.5	1	69.0	69.0	265		1730 hrs.*				16.2	1	66.0	66.0	275	
16.2	4	78.0	76.2	275		BEGUMPET				10.5	12	99.5	90.1	286					1130 hrs.	
18.0	1	68.0	68.0	270		1730 hrs.				12.0	7	94.9	92.7	276	10.5	26	46.5	39.4	264	
	1730 hrs.*				10.5	1	54.0	54.0	295	14.1	3	85.0	81.4	266	12.0	24	51.0	45.0	264	
10.5	21	68.1	61.9	277		BHUBANESHWAR					JAGDALPUR				14.1	22	42.9	38.4	267	
12.0	15	72.0	61.9	270		0530 hrs.					1730 hrs.*				16.2	14	25.7	20.5	269	
14.1	7	68.5	64.3	270	10.5	4	62.7	55.1	288	10.5	1730 hrs.				18.0	11	17.3	11.2	262	
16.2	1	57.0	57.0	270	12.0	2	52.0	43.9	275	10.5	1	84.0	84.0	265	21.0	1	28.0	28.0	250	
	ANANTAPUR					BHUJ					MANGALORE				14.1		8	78.1	73.6	
	1730 hrs.					1730 hrs.					1730 hrs.				16.2	3	76.4	76.3	270	
10.5	9	51.8	46.8	28	10.5	1	55.0	55.0	255		JAIPUR				10.5	21	42.0	36.2	268	
12.0	4	51.5	45.4	252		1730 hrs.					1730 hrs.				12.0	16	50.3	40.4	270	
14.1	2	44.5	44.5	249		DUM DUM				10.5	1	45.0	45.0	255	14.1	7	52.4	49.5	278	
	BAIRAGARH				10.5	27	66.6	58.1	268	12.0	1	45.0	45.0	250	16.2	5	38.4	37.3	264	
	1730 hrs.				12.0	22	61.1	60.5	267		JODHPUR				18.0	3	23.7	22.3	277	
10.5	1	54.0	54.0	270	14.1	16	70.7	68.4	269		MINICOY				10.5	22	41.6	37.7	249	
	BAMRAULI				16.2	7	70.1	65.7	268	10.5	19	75.0	71.8	278					POONA	
	0530 hrs.*				18.0	1	62.0	62.0	250	12.0	12	76.6	71.7	270	10.5	7	24.9	22.7	249	
10.5	18	79.2	73.1	275	21.0	1	48.0	48.0	280	14.1	4	10.2	95.5	274	12.0	4	36.3	32.7	282	
12.0	12	82.1	76.2	280		1730 hrs.*				16.2	2	70.5	68.0	278					NAGPUR	
14.1	4	66.0	64.0	285	10.5	25	63.2	57.9	277	18.0	1	72.0	72.0	270					1130 hrs.	
	1130 hrs.				12.0	22	63.4	57.9	266		0530 hrs.*				10.5	21	64.1	63.9	266	
10.5	1	43.0	43.0	29	14.1	15	67.6	64.0	275	10.5	1	56.0	56.0	260	12.0	14	66.4	60.0	259	
	1730 hrs.*				16.2	5	48.4	38.8	286		1730 hrs.*				14.1	5	54.2	53.6	268	
	1730 hrs.*				18.0	2	76.0	63.5	281		1730 hrs.*				16.2	1	92.0	92.0	300	
10.5	25	72.3	65.2	21		10.5	15	74.9	70.7	275					14.1	14	43.5	40.4	253	
12.0	20	81.0	73.8	275		GADAG				12.0	12	81.9	79.1	277					1130 hrs.	
14.1	8	73.7	71.0	273		1730 hrs.				14.1	6	83.8	80.8	273	10.5	3	79.0	78.7	265	
16.2	1	52.0	52.0	260	10.5	2	61.0	60.9	244	16.2	2	92.0	90.5	283	12.0	1	75.0	75.0	265	
	1130 hrs.				12.0						1130 hrs.				16.2	6	45.5	43.7	258	
	1730 hrs.*				14.1						1130 hrs.				18.0	4	69.2	65.0	260	
	1730 hrs.*				16.2						1130 hrs.				21.0	2	77.5	71.3	275	

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS.

Winds above 9.0 Km. above mean sea level

January 1958 (Pausa 11—Magha 11, 1979 Saka)

Ht. in Km	n	V	v	D	Ht. in Km	n	V	v	D
SANTA CRUZ									
0530 hrs.*									
10.5	23	72.2	66.3	260	10.5	1	51.0	51.0	295
12.0	21	88.3	83.0	253					
14.1	11	74.7	69.0	269					
16.2	3	67.0	66.4	281					
					10.5	2	53.5	52.5	277
					12.0	2	62.5	60.9	283
10.5	1	53.0	53.0	265					
UDAIPUR									
1730 hrs.									
VENGURLA									
1730 hrs.									
VERAVAL									
0530 hrs.*									
10.5	22	71.8	66.4	263	10.5	25	86.2	82.4	270
12.0	15	81.8	74.4	270	12.0	17	83.4	78.8	267
14.1	7	82.3	74.3	275	14.1	10	76.6	74.9	275
16.2	1	60.0	60.0	255	16.2	5	44.0	43.2	275
					18.0	1	101.0	101.0	300
TIRUCHIRAPALLI									
1130 hrs.									
1730 hrs.									
10.5	16	37.2	29.2	249	10.5	7	60.0	58.1	269
12.0	14	41.5	33.2	261	12.0	6	68.8	64.5	265
14.1	9	38.3	31.6	249	14.1	1	93.0	93.0	305
16.2	5	44.2	43.2	240					
18.0	2	40.5	34.8	258	10.5	28	76.7	72.3	265
					12.0	22	83.9	79.1	265
TRIVANDRUM									
1730 hrs.*									
0530 hrs.*									
10.5	17	29.0	17.8	240	16.2	7	55.4	45.7	267
12.0	15	30.6	19.6	243	18.0	3	42.3	29.6	265
14.1	13	27.7	20.5	232					
16.2	9	22.0	11.5	214					
18.0	3	32.3	32.2	203					
1130 hrs.									
10.5	2	32.5	25.5	003					
12.0	1	26.0	26.0	045					
1730 hrs.*									
10.5	24	27.0	14.4	250					
12.0	23	28.7	14.9	262					
14.1	17	24.5	13.6	267					
16.2	12	19.0	7.4	250					
18.0	4	8.5	7.4	116					

RADIOSONDE DATA**January, 1958 (Pausa 11—Magha 11, 1879 Saka)**

During the month, observations of upper air temperature, pressure and humidity were made at 13 stations in India as given in the list below. For a detailed description of the instruments used, a reference may be made to the I.M.D. Scientific Notes Nos. 112 and 113 (Volume IX).

LIST OF RADIOSONDE STATIONS IN INDIA

S. No.	Name of Station	Type of instrument used	Date of starting	Hours of routine observations in GMT during the month	Remarks
1	Allahabad . . .	Clock type	1st October 1944	00 and 12	
2	Amritsar . . .	Clock type	21st June 1957	00 and 12	
3	Bombay . . .	Clock type	7th September 1954	00 and 12	
4	Calcutta . . .	Clock type	13th December 1946	00 and 12	Fan type used from 13th December, 1946 to 30th November, 1947.
5	Gauhati . . .	Clock type	22nd July 1955	00 and 12	
6	Jodhpur . . .	Clock type	17th April 1946	00 and 12	
7	Madras . . .	Fan type	29th June 1946	00 and 12	
8	Nagpur . . .	Fan type	1st October 1946	00 and 12	
9	New Delhi . . .	Clock type	3rd December 1943	00 and 12	
10	Port Blair . . .	Fan type	4th December 1949	00 and 12	
11	Trivandrum . . .	Fan type	1st July 1947	00 and 12	
12	Veraval . . .	Fan type	3rd October 1944	00 and 12	
13	Visakhapatnam . . .	Fan type	8th December 1946	00 and 12	

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES
 (A) From Ascents at 00 Hours G. M. T.
January 1958 (Pausa 11—Magha 11, 1879 Saka)

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 00 Hours G. M. T.

January 1958 (Pausa 11—Magha 11, 1879 Saka)

Standard pressure Surface mbs.	MADRAS Surf. Pr. (1012 mb.)							NAGPUR (980 mb.)							NEW DELHI (992 mb.)						
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A						
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			
Surface	31	15	294.9	297	293	292.7	30	311	290.3	295	284	281.4	31	210	282.5	288	278	281.1			
1000	31	123	..	..	..	..	30	134	..	..	..	..	31	147	..	..	..	..
900	30	1037	291.5	296	287	285.4	30	1040	292.1	295	288	278.9	31	1033	286.4	291	283	273.9			
850	30	1525	289.0	293	284	280.7	30	1529	289.1	292	285	276.0	31	1513	284.6	289	279	270.4			
800	30	2039	287.1	291	283	272.5	30	2041	285.9	289	283	273.2	31	2017	281.9	286	276	269.5			
700	30	3159	283.3	287	279	262.1	30	3151	280.1	283	276	264.8	31	3108	274.4	280	268	264.5			
600	29	4427	277.4	283	274	259.0	30	4402	273.4	278	269	262.2	31	4336	268.0	273	260	..			
500	29	5887	268.1	277	264	..	30	5838	263.9	270	258	..	31	5742	258.3	263	251	..			
400	28	7612	258.0	263	253	..	30	7526	252.1	259	246	..	31	7394	246.6	252	239	..			
300	27	9738	244.8	253	238	..	28	9591	238.3	246	232	..	29	9411	232.0	239	224	..			
250	27	11019	235.3	243	228	..	26	10839	230.2	243	221	..	29	10638	224.6	235	215	..			
200	25	12524	224.4	233	217	..	23	12323	222.8	228	219	..	29	12076	218.0	224	210	..			
175	24	13365	218.1	224	211	..	18	13198	217.5	224	210	..	28	12935	215.8	220	210	..			
150	22	14358	212.0	220	207	..	15	14188	213.2	222	205	..	22	13902	213.3	219	208	..			
125	19	15434	205.6	213	199	..	9	15342	209.9	218	205	..	18	15029	211.2	218	205	..			
100	15	16722	201.6	209	193	..	5	16719	207.7	214	205	..	13	16431	210.2	217	203	..			
80	10	18112	200.4	209	191	..	..	..	..	..	..	..	6	17836	210.7	213	209	..			
	PORT BLAIR (1004 mb.)							TRIVANDRUM (1005 mb.)							VERVAL (1014 mb.)						
Surface	30	79	297.4	300	294	295.5	30	64	297.5	299	293	294.2	31	8	292.5	296	289	285.8			
1000	30	118	..	..	..	..	30	104	..	..	..	..	31	127	..	..	..	279.9			
900	30	1038	292.8	296	290	289.5	30	1021	292.9	297	290	287.8	31	1040	292.2	296	288	276.8			
850	30	1530	290.2	294	287	285.3	30	1512	290.6	295	287	283.1	31	1528	288.7	293	284	273.5			
800	30	2047	287.4	291	283	280.6	30	2028	288.4	292	285	278.8	31	2040	286.1	292	280	265.5			
700	30	3168	282.9	286	278	271.0	30	3150	283.6	288	279	268.4	31	3152	281.0	285	277	258.7			
600	30	4434	276.2	281	273	264.1	30	4416	276.4	281	269	262.1	31	4408	273.8	278	269	..			
500	28	5894	268.0	273	265	..	29	5868	268.4	273	261	..	31	5847	264.4	268	259	..			
400	28	7609	256.6	261	251	..	29	7592	257.8	263	251	..	31	7539	252.7	263	246	..			
300	26	9700	240.8	246	233	..	23	9710	244.1	251	236	..	31	9615	238.4	248	227	..			
250	23	10970	231.8	238	223	..	17	11000	234.3	241	223	..	29	10869	230.4	241	224	..			
200	21	12457	220.7	226	215	..	15	12498	222.7	228	210	..	28	12347	222.2	232	215	..			
175	20	13304	214.7	219	209	..	11	13345	215.3	222	203	..	25	13218	218.1	227	209	..			
150	16	14286	209.8	215	204	..	10	14331	209.6	217	202	..	22	14203	213.8	223	205	..			
125	9	15387	203.3	206	198	..	8	15440	203.3	210	195	..	16	15365	210.1	220	198	..			
100	5	16784	199.0	202	194	..	7	16736	199.0	202	195	..	12	16725	205.7	221	194	..			
80	..	..	..	..	..	..	..	..	..	..	..	..	9	18086	205.9	217	191	..			

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES
 (A) From Ascents at 00 Hours G. M. T.
 January 1958 (Pausa 11—Magha 11, 1879 Saka)

Standard Pressure Surface mbs.	VISAKHAPATNAM Surf. Pr. (1009 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	31	048	295.7	298	293	291.3
1000	31	139	..	..	..	..
900	31	1042	291.5	294	289	282.2
850	31	1530	289.1	292	285	277.3
800	31	2043	286.4	291	282	272.2
700	31	3158	282.0	287	277	261.8
600	31	4419	275.2	279	270	259.2
500	31	5869	266.1	271	258	..
400	31	7575	255.2	264	250	..
300	29	9666	240.3	251	234	..
250	26	10927	231.1	242	224	..
200	22	12419	220.6	234	213	..
175	17	13248	214.3	221	205	..
150	13	14238	209.3	217	200	..
125	8	15356	206.0	215	199	..
100						
80						

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES
(B) From Ascents at 12 Hours G. M. T.
January 1958 (Pausa 11—Magha 11, 1879 Saka)

Standard pressure surface mbs.	ALLAHABAD Surf. Pr. (1004 mb.)							AMRITSAR (990 mb.)							BOMBAY (1011 mb.)						
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A						
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			
Surface	31	98	295.6	299	293	285.2	31	230	292.0	295	288	281.0	31	13	302.4	305	299	290.0			
1000	31	130	..	..	..	..	31	141	..	..	..	..	30	110	..	..	..	..
900	30	1038	290.4	298	286	277.0	31	1036	286.6	219	283	271.8	30	1037	295.4	299	291	278.4			
850	30	1522	287.5	295	283	272.4	31	1515	283.7	289	279	264.1	30	1530	291.5	295	287	275.2			
800	30	2031	284.9	292	279	269.2	31	2017	280.7	286	276	263.6	30	2047	287.9	291	284	272.4			
700	30	3138	278.2	282	272	261.2	31	3104	274.2	281	269	257.1	30	3165	282.7	286	279	258.4			
600	30	4380	271.3	277	266	246.6	31	4325	266.2	271	260	..	30	4428	274.5	279	270	250.9			
500	30	5807	262.3	272	255	..	31	5725	257.0	263	250	..	30	5873	265.6	271	256	..			
400	30	7481	249.7	255	243	..	30	7376	246.0	253	239	..	29	7581	254.7	261	244	..			
300	29	9525	235.2	244	228	..	30	9387	230.2	237	221	..	23	9676	240.2	247	235	..			
250	27	10759	227.0	234	219	..	30	10599	222.9	228	217	..	21	10934	232.1	242	226	..			
200	25	12229	220.4	229	212	..	28	12037	217.9	225	212	..	17	12424	224.1	229	217	..			
175	22	13127	217.4	227	210	..	25	12882	216.4	224	208	..	15	13290	219.9	225	215	..			
150	20	14039	214.9	225	207	..	22	13866	215.7	223	209	..	11	14281	215.6	220	210	..			
125	16	15202	211.6	224	202	..	16	15008	214.1	222	207	..	7	15423	211.3	215	205	..			
100	14	16533	207.6	219	200	..	11	16382	211.8	217	209	..	8	16799	205.3	215	199	..			
80	7	18088	207.7	213	203	..	7	17797	213.9	216	211	..	5	18124	203.2	215	194	..			
	CALCUTTA (1014 mb.)							GAUHATI (1009 mb.)							JODHPUR (990 mb.)						
Surface	31	6	298.3	302	290	289.4	31	49	293.8	296	291	291.1	31	218	297.9	301	295	279.3			
1000	31	125	..	..	..	..	31	129	..	..	..	..	31	128	..	..	..	..
900	31	1042	292.5	298	285	279.4	31	1035	287.7	294	285	283.8	31	1041	291.9	297	288	272.9			
850	31	1530	289.3	294	282	275.1	31	1519	285.3	293	281	279.9	31	1528	287.7	292	282	270.1			
800	31	2043	286.4	291	280	271.1	31	2022	281.5	287	277	276.1	31	2038	284.5	291	280	267.0			
700	31	3155	280.8	286	273	259.0	31	3114	275.8	280	271	266.9	31	3141	278.3	284	269	259.0			
600	31	4407	273.7	279	264	250.4	31	4347	269.4	278	263	258.2	31	4386	271.4	279	263	251.5			
500	31	5848	264.5	270	257	..	31	5766	261.1	268	255	..	31	5813	261.9	269	254	..			
400	31	7543	252.7	259	247	..	31	7436	249.2	256	241	..	31	7490	250.5	255	241	..			
300	28	9621	239.0	247	231	..	22	9469	234.8	244	227	..	27	9545	235.6	242	229	..			
250	25	10872	231.0	240	223	..	20	10700	226.7	240	220	..	26	10781	227.5	237	222	..			
200	21	12351	221.9	229	214	..	17	12152	217.8	230	210	..	23	12248	220.5	228	215	..			
175	18	13191	217.7	222	212	..	8	13022	214.3	221	211	..	22	13108	217.2	223	211	..			
150	17	14149	213.5	219	206	..	5	14056	211.0	215	209	..	18	14063	213.2	220	205	..			
125	12	15307	208.7	213	199	..							13	15171	211.0	219	199	..			
100	5	16698	203.8	209	199	..							10	16617	207.9	215	198	..			
80													5	17992	205.0	213	195	..			

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 12 Hours G. M. T.

January 1958 (Pausa 11—Magha 11, 1879 Saka)

Standard pressure Surface mbs.	MADRAS Surfs. Pr. (1012 mb.)						NAGPUR (978 mb.)						NEW DELHI (992 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	15	300.2	302	299	292.9	31	311	300.2	304	296	282.8	31	210	292.7	296	290	283.4
1000	31	118	..	..	..	..	31	117	..	..	..	..	31	138	..	..	..	..
900	31	1037	292.2	295	289	284.3	31	1040	294.5	298	289	278.3	31	1038	287.8	291	284	274.0
850	31	1527	290.0	293	287	278.6	31	1530	290.6	295	286	269.3	31	1519	285.2	289	281	269.1
800	31	2042	287.9	291	284	271.0	31	2044	286.6	292	283	273.9	31	2024	282.4	286	277	264.7
700	31	3165	283.9	287	280	262.9	31	3155	280.4	284	276	263.9	31	3118	276.0	282	271	257.3
600	31	4435	277.5	281	274	258.5	31	4408	273.1	278	269	250.0	31	4350	268.6	274	262	..
500	31	5897	269.1	275	265	..	31	5845	264.3	270	257	..	31	5760	258.9	264	253	..
400	28	7625	258.7	262	253	..	31	7534	252.5	258	244	..	31	7418	247.4	253	242	..
300	26	9743	243.9	248	235	..	31	9602	237.6	245	226	..	28	9439	232.2	240	227	..
250	23	11011	234.0	239	224	..	27	10852	229.3	239	219	..	28	10659	224.3	235	219	..
200	23	12526	223.6	228	218	..	24	12320	220.6	232	211	..	27	12108	218.8	227	212	..
175	22	13388	218.3	223	211	..	20	13190	219.4	228	206	..	25	12955	217.0	228	208	..
150	22	14366	212.6	218	205	..	17	14155	212.3	222	202	..	19	13928	215.1	224	207	..
125	20	15473	206.7	211	199	..	6	15440	211.5	216	203	..	14	15092	213.0	223	204	..
100	12	16852	201.7	207	191	..							7	16403	209.7	214	206	..
80	10	18106	202.9	209	198	..												
	PORT BLAIR (1004 mb.)						TRIVANDRUM (10.3 mb.)						VERAVAL Surf. pr. (1013 mb.)					
Surface	31	79	299.9	302	298	296.0	31	64	302.2	303	301	295.4	31	8	299.5	303	298	293.0
1000	31	112	..	..	..	..	31	94	..	..	..	..	31	120	..	..	..	..
900	31	1035	293.4	297	290	290.3	30	122	295.2	297	291	288.9	31	1041	293.9	297	291	282.3
850	31	1527	290.6	294	288	286.5	30	1516	292.2	296	288	284.9	31	1531	289.9	293	286	279.7
800	31	2045	288.1	292	285	282.4	30	2033	289.2	293	285	279.9	31	2045	286.4	290	281	275.9
700	31	3168	283.6	289	279	273.8	30	3160	284.4	289	279	271.3	31	3159	281.7	286	278	268.0
600	31	4438	277.0	280	274	268.5	30	4432	277.6	281	273	266.9	31	4419	275.2	278	271	262.3
500	29	5900	269.0	273	264	..	30	5893	269.0	273	264	..	31	5865	265.2	271	260	..
400	27	7623	257.5	263	253	..	30	7618	258.0	262	253	..	31	7561	253.3	264	242	..
300	26	9731	242.0	251	233	..	26	9735	243.1	249	237	..	31	9641	239.4	248	233	..
250	23	10999	233.0	243	225	..	24	11016	233.9	241	225	..	31	10900	231.1	239	224	..
200	21	12494	222.4	235	212	..	23	12511	222.9	231	212	..	29	12418	222.8	230	216	..
175	16	13308	215.4	224	204	..	18	13405	217.3	225	208	..	26	13267	219.3	227	212	..
150	15	14267	209.6	217	199	..	17	14350	211.9	217	202	..	25	14250	214.2	224	205	..
125	9	15451	207.0	214	201	..	10	15426	204.3	209	195	..	20	15397	210.2	220	197	..
100	5	16788	203.2	210	197	..	9	16730	201.7	205	197	..	16	16750	207.6	216	194	..
80							5	18097	198.4	203	196	..	11	18172	211.1	223	203	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 12 Hours G.M.T.

January 1958 (Pausa 11—Magha 11, 1879 Saka)

Standard Pressures Surface mbs.	VISAKHAPATNAM Surf. pr. (1008 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	31	48	299.7	301	298	293.1
1000	31	123	..	..	..	..
900	31	1042	292.6	295	288	283.6
850	31	1533	290.2	293	287	279.0
800	31	2047	287.7	291	283	274.9
700	31	3166	282.2	287	276	265.0
600	31	4429	275.7	281	271	255.8
500	31	5879	266.2	271	261	..
400	31	7583	254.7	262	249	..
300	29	9682	241.2	249	234	..
250	23	10945	232.6	241	225	..
200	20	12440	223.1	232	215	..
175	12	13292	217.8	224	207	..
150	9	14264	210.9	219	199	..
125	..	..	..	..	..	..
100	..	..	..	..	..	..
80	..	..	..	..	..	..

NOTE:—Number of observations refer to those of dynamic height

Means are not worked out for temperature and dew point for the 1000 mb. surface and for dew point for standard pressure surfaces with temperature less than 27°A.

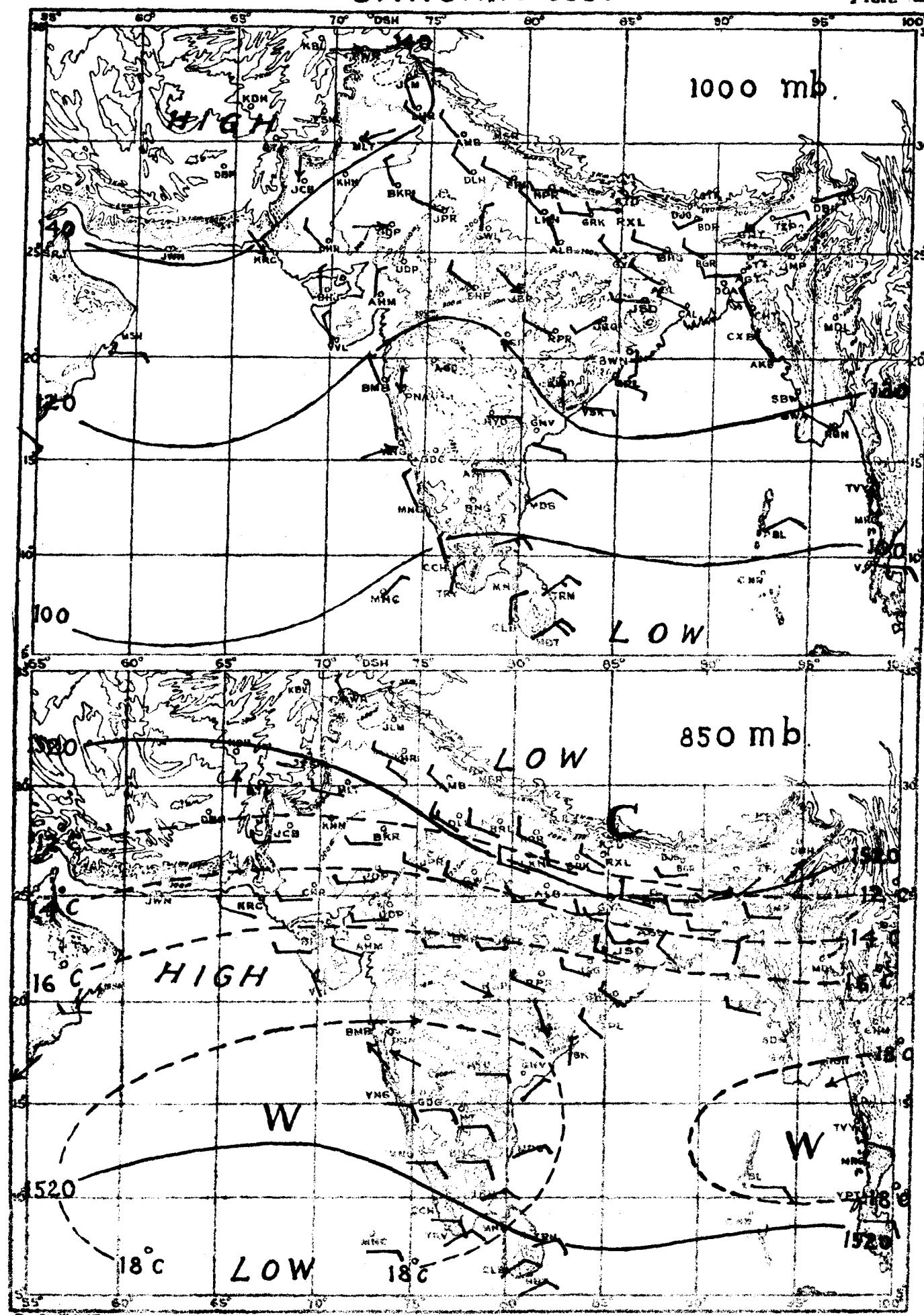
Means are not worked out for less than five observations at standard pressure surfaces.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D.

JANUARY 1958

Plate I



RESULTANT WIND — 5 Knots, — 10 Knots, — 50 Km/h (1050 ft/s)

Isotherms in degrees absolute.

CONTENTS IN ALPHABETICAL METRES.

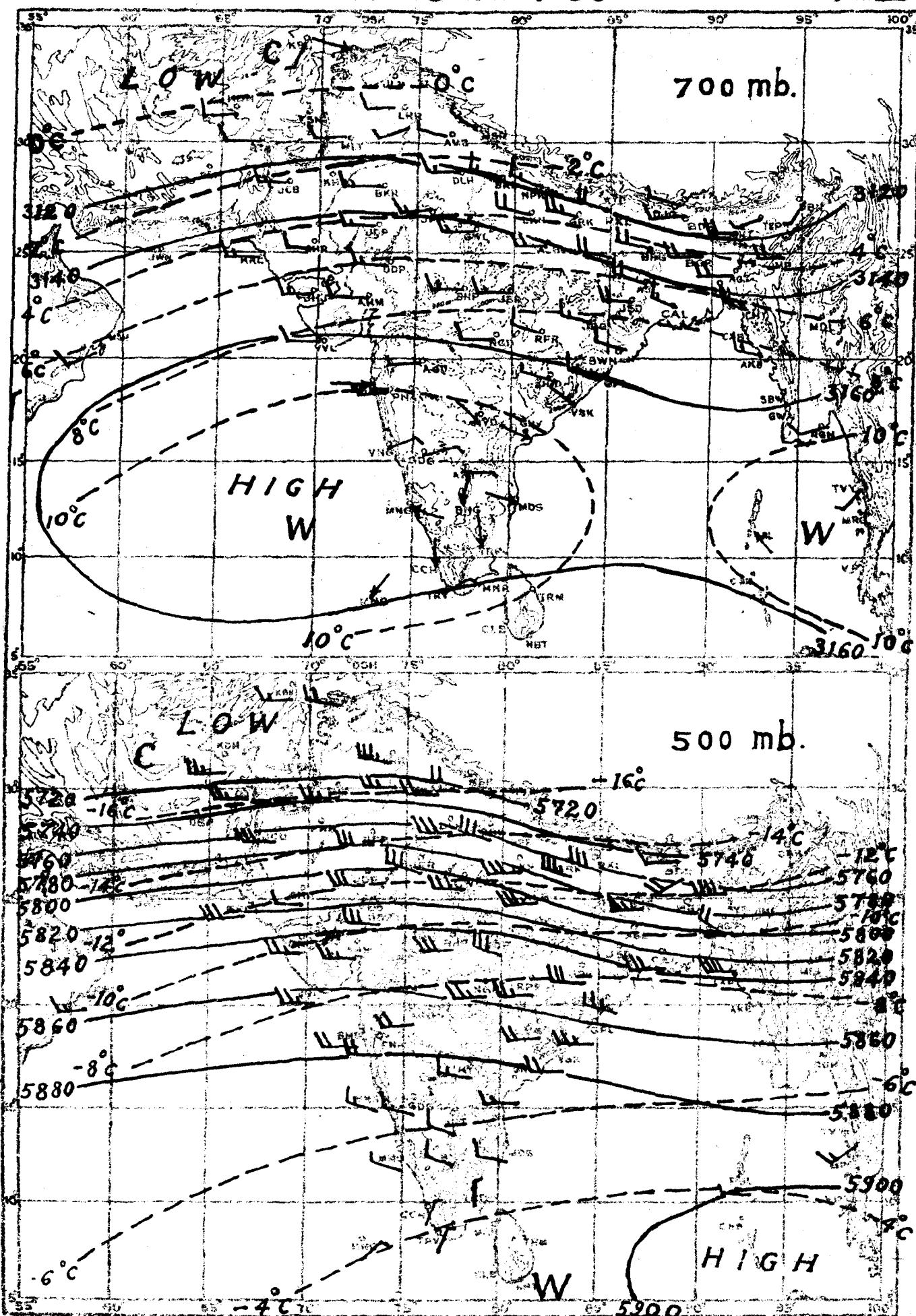
1000 ft = 304.8 m

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I. Met. D.

JANUARY 1958

Plate II

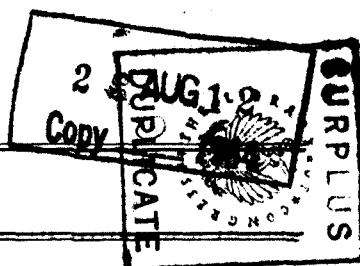


RESULTANT WIND: --- 5 Knots, --- 10 Knots, --- 50 Knots
- Isobaths in degrees absolute. --- Contours in geopotential metres.

INDIA WEATHER REVIEW, 1958

Monthly Weather Report
February

Published by authority of the Government of India



Chief features :

Feeble activity of the western disturbances affecting north India as also the easterly waves affecting the south Peninsula.

Four western disturbances affected the country during the month. The first two affected the extreme north of the country during the first week of the month. The third, while moving away across Kashmir on 18th, induced a low over Rajasthan. This induced low took an easterly course and moved away across Assam by 23rd. The fourth western disturbance also induced a low over Rajasthan. This western disturbance together with the seasonal high over the Bay of Bengal were responsible for a good flow of moist air into the Peninsula and into parts of north east India in the lower troposphere. This situation resulted in extensive thunderstorm activity over the area, particularly over east Madhya Pradesh and Chota Nagpur towards the close of the month. Tabular statement showing the movement and activity of each western disturbance of February is given below.

Statement showing the movement and activity of western disturbances during the month of February 1958.

S. No.	Period	Course	Region affected	Nature of precipitation	Period	Remarks
1	1st-2nd	Baluchistan-Punjab-Jammu and Kashmir.	Jammu and Kashmir Himachal Pradesh and Punjab hills.	Local rain or snow Scattered rain or snow	2nd	
2	4th-7th	Afghanistan-N. W. F. P.-Jammu and Kashmir.	Jammu and Kashmir, Himachal Pradesh Punjab—Kumaon hills.	Local or scattered rain or snow. —Do— —Do—	5th and 6th 5th and 6th 5th and 6th	
3	17th-18th	N. W. F. P.-Jammu and Kashmir.	Jammu and Kashmir	Scattered rain or snow.	18th	
3(a)	18th-23rd	Rajasthan-North Madhya Pradesh-Chota Nagpur West Bengal-East Pakistan-Assam.	Uttar Pradesh Orissa Gangetic West Bengal Assam.	Scattered rain —Do— —Do— Local or scattered rain	20th and 21st 20th 20th-23rd 20th-23rd	Induced by western disturbance No. 3.
4	26th-28th	N. W. F. P.-Jammu and Kashmir.	Himachal Pradesh Jammu and Kashmir Punjab-Kumaon hills Plains of Uttar Pradesh and the Punjab (I).	Local or scattered rain or snow. Fairly widespread rain or snow Scattered showers	27th-28th 28th 28th	
4(a)	27th Feb. 1st March.	Rajasthan-North Madhya Pradesh-Chota Nagpur-Gangetic West Bengal East Pakistan.	Rajasthan West Madhya Pradesh East Madhya Pradesh Chota Nagpur. Gangetic West Bengal	Scattered thundershowers Scattered thundershowers Fairly widespread thundershowers with Scattered hailstorms. Fairly widespread thundershowers. Local or scattered thundershowers.	27th and 28th 27th 27th and 28th 28th Feb. and 1st March. 28th Feb. and 1st March.	Induced by western disturbance No. 4.

Fairly widespread or local thundershowers also occurred in Chota Nagpur and Gangetic West Bengal between 13th and 15th, in association with a trough of low pressure which developed over Madhya Pradesh and Vidarbha on 13th and filled up over Chota Nagpur and Orissa by 15th. Another trough of low pressure appeared over Vidarbha and neighbourhood on 23rd, persisted there for two days and filled up by 25th. This trough induced a flow of moist southerlies in east Madhya Pradesh and parts of north-east India. Thundershowers were fairly widespread in east Madhya Pradesh and Chota Nagpur on 25th. A few hailstorms were also reported from this area.

Two easterly waves moved across the south Bay of Bengal between 1st and 5th. These were associated with local or scattered showers in the Bay Islands, Madras State and Kerala during that period. A third easterly wave moved across the south-east Bay of Bengal on 6th, lay over the south-west Bay of Bengal on 7th and 8th and became unimportant thereafter. It caused local or scattered thundershowers in the Bay Islands on 6th and 7th.

It was a mild winter month in respect of minimum temperatures, which were generally normal or above normal over most of the country on several days.

Total rainfall during the month was in large excess in Kerala, in moderate excess in Orissa and normal in Assam, Chota Nagpur and east Madhya Pradesh. It was in slight defect in Gangetic West Bengal, in moderate defect in Sub-Himalayan West Bengal, Telangana and Rayalaseema and in large defect over the rest of the country outside Gujarat, Saurashtra and Kutch, Maharashtra and coastal and south Mysore State where there was no rain.

The mean maximum temperature was above normal over the country outside Assam, West Bengal, Orissa, Chota Nagpur, Gujarat, the Konkan, Maharashtra, coastal Andhra Pradesh, Rayalaseema and the States of Madras, Mysore and Kerala. The mean minimum temperature was normal over the country outside the Bay Islands, Gangetic West Bengal, Orissa, Rayalaseema, the Madras State and south Mysore where it was above normal.

Relative humidity was below normal in Sub-Himalayan West Bengal, Bihar, Uttar Pradesh, west Rajasthan, Madhya Pradesh, Vidarbha, coastal Andhra Pradesh and Rayalaseema and normal over the rest of the country outside coastal Mysore where it was above normal.

Mean cloud amount was in defect in Bihar State, east Utter Pradesh, Rajasthan, Madhya Pradesh, Gujarat and Saurashtra and Kutch, normal in the Bay Islands, Assam, West Bengal, West Utter Pradesh, the Punjab(I), Jammu and Kashmir, Vidarbha and coastal Andhra Pradesh and in excess over the rest of the country.

Table I contains the divisional and sub-divisional means of rainfall, temperatures, humidity and cloud amount for the 14 chief political divisions and the 30 sub-divisions. The stations whose observations are used for preparing these means are given in the subsequent tables.

The highest maximum temperature given for any station in the accompanying tables is that recorded within the 24 hours ending at 0830 hrs. IST of the date noted in the succeeding columns similarly the heaviest fall in 24 hours for any station denotes the amount recorded during the 24 hours ending at 0830 hrs. IST of the date given in the succeeding column.

POONA 5,

The 15th May 1960.

C. RAMSWAMY,

for *Director General of Observatories*

Errata to M.W.R. for the month February 1958 (Magha 12 Phalguna 9, 1879 Saka)

Page No.	Station	Hour	Column	For	Read
----------	---------	------	--------	-----	------

Table I - Sub-Division

57	23 Telangana	6	- 59	59
----	--------------	---	------	----

Table II

58	Port Blair	3	+ 0.2	+ 2.2
58	Port Blair	12	25.6	-25.6
58	Kondul	11	010.9	100.9
58	Dibrugarh	14	Blank	5
58	Tezpur	3	+ 2.2	+ 0.2
58	Silchar	26	2	0
58	Haflong	4	14.6	24.6
58	Asansol	12	+ 18.0	- 18.0
58	Cuttack	12	- 47.1	+ 47.1
59	Angul	24	2	0
59	Sambalpur	19	2.9	- 2.9
59	Jamshedpur	7	+ 0.1	+ 1.0
60	Leh	7	- 0.3	- 3.0
62	Khammameth	2	(Not clear)	34.1
63	Karwar	12	- 0.1	- 1.0
63	Raichur	12	- 6.1	+ 6.1
63	Simla	3	- 1.4	+ 1.4
63	Simla	8	0.8	- 0.8
64	Ootacamund	7	(Not clear)	+ 0.2

Table III

66	Tezpur (P.B.O)	0830	27	12	2
67	Tura	1730	7	23.3 (d)	23.3
67	Agartala	0230	7	15.5	15.5 (d)
67	Agartala	0830	8	17.5	17.1
68	Barrackpore	1130	5	012.5	1012.5
68	Titillagarh	0830	28	6	5
68	Titillagarh	1730	28	5	6
69	Sambalpur	0830	6	- 20	- 0.2
69	Motihari	0830	1	Motihari	Motihari (R)
69	Patna	1730	5	1004.3	1004.8
69	(Foot note)			(Not given)	(d) Mean of 27 days.
70	Gonda	0830	12	13	- 13
70	Varanasi (Banaras)	0830	1	Varanasi (Banaras)*	Varanasi (Banaras)
70	Allahabad (Bamrauli)	0230	3	(Not given)	98
70	Allahabad (Bamrauli)	0830	3	98	..
71	Roorkee	0830	27	10	19
71	Patiala	1730	6	- 0.4	..
71	Ambala	0830	6	..	- 0.4
72	Ferozepur	1730	8	3.9	13.9
72	Amritsar	1730	8	(Not clear)	12.6
72	Sri Ganganagar	0830	12	- 1	- 15
72	Jodhpur	1730	5	986.0	986.1
73	Ajmer	1730	16	Blank	0
73	Udaipur	0230	10	0.9	9.0
73	Sheopur Kalan	1730	16	Blank	0
73	Guna	1130	10	8.6	6.8
74	Pendra	0830	11	84	48
74	Kanker	1730	21	Blank	0
74	Kanker	1730	27	1	17
75	Dohad	0830	9	2.0	2.6
75	Bhuj (Aerodrome)	1130	12	0	..

Page No.	Station	Hour	Column	For	Read
77	Poona (Lohagaon Aerodrome)	1130	21	Blank	6
77	Akola	0830	12	+ 10	- 10
77	Akdla (Aerodrome)	0530	9	0.2	- 0.2
77	Gondia	0830	5	978.9	978.6
78	Nizamabad	0830	6	0.6	- 0.6
78	Hakimpet	0830	8	15.4	17.4
78	Kurnool	1730	16	Blank	0
79	Tiruchirapalli	1130	28	0	1
79	Coimbatore (Peelamedu Aerodrome)	1730	8	21.2	21.1
79	Salem	0830	14	+ 1	+ 1.2
79	Madras (Nungambakkam)	0830	4	1113.9	1013.9
80	Gadag (P.B.O)	2330	4	1911.9	1011.9
80	Balehonnur	0830	3	"	"
80	Hassan	0830	5	1008.4	908.4
80	Mysore	1730	13	(Not clear)	3.4
80	Kozhikode	1130	24	0	6
81	Arabian Sea Islands		1	Arabian Islands	Arabian Sea Islands
81	Mahabaleshwar	1730	4	5110.6	1510.6
82	Hirakud	0830	4	1014.4	1014.5
83	Sallyana	1730	7	42.4 (d)	12.4 (d)
83	Katmandu	1130	3	"	"
83	Katmandu	1330	3	"	"

* * * * *

Page No.	Station	Time in I.S.T.	Ht. in. Km.	C Existing entry				Correct entry			
				n	V	v	D	n	V	v	D
86	Ahmedabad	2330	7.2			35.9				35.0	
96	New Delhi	0530*	1.5				394				304
98	Tiruchirapalli	1730	2.1				008				003
98	Tiruchirapalli	2330	2.1				003				001
100	Bangalore	1730	18.0	5	0	5	0			5.0	5.0
100	Gadag	1730	10.5			118					11.8
100	Gannavaram	1730	10.5	34	6	30	3			34.6	30.3
100	Gorkhpur	1730	10.5		1	2	5			102.5	
100	Madras	0530	18.0		16	0				16.0	
100	Minicoy	1730	16.2	2				1			
100	Nagpur.	0530*	10.5								(read 10.5 instead of 0.5)
101	Veraval	1130	14.1			90	6			90.6	
101	Veraval	1730*	16.2		43	7	(not clear)	43.7	42.3	268	
107	Madras										Under column Max. Temp. and against 125 mbs. read '208' instead of 206

		Rainfall (millimetres)										Rainfall (millimetres)									
		1	2	3	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity %	Cloud.			1	2	3	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity %	Cloud		
		4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Division																					
1. Assam (Including Manipur, Tripura).	35.2 -3.4	91 -0.3	24.4 +0.9	13.3 +0.9	81 -1	64 +0.5	3.9 +0.5	3.2 -1	9. Madhya Pradesh	12.6 -2.5	83 +1.3	29.4 +0.5	12.8 -10	46 -10	25 -10	1.0 -0.6	1.6 -0.6				
2. West Bengal	22.2 -4.7	83 +0.4	28.0 +1.4	15.8 +1.4	67 -5	49 -0.1	2.0 -0.1	1.9 -0.1	10. Bombay	0.1 -3.7	3 +0.9	31.3 +0.6	16.1 +1	58 -6	35 -6	1.1 +0.4	1.3 0				
3. Orissa	39.8 +13.1	149 +0.3	29.9 +1.3	19.0 +1.3	69 -2	58 +0.4	2.4 -0.4	3.2 -0.4	11. Andhra Pradesh	3.1 -8.5	27 +0.8	32.8 +0.7	20.3 -0.7	65 -6	44 -6	2.4 +0.4	2.5 +0.4				
4. Bihar	13.8 -10.4	57 +1.3	27.8 +1.7	13.0 +1.7	61 -8	41 -0.4	1.5 -0.4	1.6 -0.4	12. Madras State	4.0 -11.6	26 +0.3	31.7 +1.3	22.1 -1.3	75 -4	53 -4	3.7 +1.0	3.1 +1.0				
5. Uttar Pradesh	5.5 -17.3	24 +1.4	26.2 +0.3	10.3 +0.3	60 -10	34 -0.5	1.6 -0.5	1.8 -0.5	13. Mysore	0.9 -3.2	22 -0.1	31.7 +0.8	18.7 -0.8	60 -1	33 -1	2.9 +1.5	3.3 +1.5				
6. Punjab (India) (Including Himachal Pradesh and Delhi).*	1.7 -27.9	6 +1.4	25.3 -0.1	8.8 -0.1	66 -1	33 -0.3	2.2 -0.3	1.7 -0.3	14. Kerala	49.8 +35.0	336 +0.3	31.6 +0.8	24.1 -0.8	77 0	67 0	3.4 +1.4	4.1 +1.4				
7. Jammu and Kashmir.	14.9 -52.1	22 +2.9	16.3 +0.1	4.7 -5	71 -0.5	51 -0.5	4.1 -0.5	4.2 -0.5	Mean of India (Excluding Jammu & Kashmir and Himachal Pradesh)	9.2 -5.9	61 +0.9	29.4 +0.6	14.9 -5	59 -5	37 -5	1.8 -0.1	2.0 -0.1				
8. Rajasthan	0.3 -7.6	4 +1.7	27.9 +0.2	10.8 -8	47 -8	22 -1.0	1.0 -1.0	1.5 -1.0													
Sub-division									Sub-division—Contd.												
1. Bay Islands	2.6 -25.6	9 +2.2	31.9 +1.1	22.5 -5	66 -0.2	74 -0.2	2.7 -0.2	3.3 -0.2	15. Madhya Pradesh (West)	2.7 -5.7	32 +1.1	29.2 +0.2	12.0 -11	40 -11	20 -11	0.7 -0.8	1.2 -0.8				
2. Assam (Including Manipur, Tripura).	35.2 -3.4	91 -0.3	24.4 +0.9	13.3 -1	81 +0.5	64 +0.5	3.9 +0.5	3.2 +0.5	16. Madhya Pradesh (East)	26.7 +2.0	108 +1.5	29.6 +1.0	13.8 -7	55 -7	32 -7	1.4 -0.4	2.1 -0.4				
3. Sub-Himalayan West Bengal.	14.1 -5.5	72 +0.1	25.7 +0.5	12.7 +0.5	69 -7	44 +0.1	1.7 +0.1	1.3 +0.1	17. Gujarat	0 -2.6	0 +0.9	32.1 +0.4	14.4 -5	53 -5	23 -5	0.5 -0.7	0.6 -0.7				
4. Gangetic West Bengal.	25.3 -4.4	85 +0.5	28.7 +1.7	16.7 +1.7	66 -4	50 -0.2	2.1 -0.2	2.1 -0.2	18. Saurashtra and Kutch.	0 -3.0	0 +1.4	30.3 +0.8	14.7 +5	62 +5	38 +5	0.6 -0.8	0.5 -0.8				
5. Orissa	39.8 +13.1	149 +0.3	29.9 +1.3	19.0 -2	69 +0.4	58 +0.4	2.4 +0.4	3.2 +0.4	19. Konkan	0.2 -0.7	22 +0.6	29.1 +0.7	19.7 +3	71 +3	61 +3	1.7 +0.7	1.8 +0.7				
6. Chota Nagpur	36.5 -1.5	96 +0.9	28.2 +1.0	13.9 -3	66 -0.5	44 -0.5	1.6 -0.5	1.9 -0.5	20. Maharashtra	0 -3.1	0 +0.5	32.8 +0.4	14.7 +3	50 +3	23 +3	1.5 +0.5	1.7 +0.5				
7. Bihar	4.8 -14.0	26 +1.6	27.6 +0.5	12.3 -11	57 -0.4	40 -0.4	1.5 -0.4	1.3 -0.4	21. Vidarbha	0.9 -15.2	6 +1.2	33.3 +0.6	16.4 -6	45 -6	22 -6	1.5 0	2.0 0				
8. Uttar Pradesh (East).	6.4 -12.7	34 +1.4	27.1 +0.3	10.8 -13	57 -0.6	36 -0.6	1.2 -0.6	1.8 -0.6	22. Coastal Andhra	0.6 -12.8	4 +0.7	32.0 +0.6	21.1 -6	71 -6	59 -6	2.8 +0.4	2.6 +0.4				
9. Uttar Pradesh (West).	4.7 -21.4	18 +1.3	25.4 +0.3	9.9 -7	62 -0.4	32 -0.4	1.9 -0.4	1.8 -0.4	23. Telangana	7.6 -6.6	51 +1.1	32.9 +0.6	18.0 -4	-59 -4	25 -4	2.2 +0.4	2.7 +0.4				
10. Punjab (India) (Including Delhi).	1.7 -27.9	6 +1.4	25.3 +0.1	8.8 -1	66 -0.3	33 -0.3	2.2 -0.3	1.7 -0.3	24. Rayalasema	4.3 -1.6	73 +0.7	35.1 +1.4	21.3 -7	55 -7	29 -7	1.7 +0.5	1.8 +0.5				
11. Himachal Pradesh	4.9 ..	22 ..	16.3 ..	4.7 ..	71 ..	51 ..	4.1 ..	4.2 ..	25. Madras State	4.0 -11.6	26 +0.3	31.7 +1.3	22.1 -4	75 -4	53 -4	3.7 +1.0	3.1 +1.0				
12. Jammu & Kashmir	14.9 -52.1	22 +2.9	16.3 +0.1	4.7 -5	71 -0.5	51 -0.5	4.1 -0.5	4.2 -0.5	26. Coastal Mysore	0 -1.1	0 -0.7	30.7 +0.5	22.0 +7	80 +7	62 +7	3.5 +1.4	3.1 +1.4				
13. Rajasthan (West)	0.1 -10.7	1 +1.9	27.8 +0.8	10.9 -13	48 -1.1	22 -1.1	1.3 -1.1	1.7 -1.1	27. Mysore (North)	1.9 -2.7	41 +0.2	32.7 +0.4	18.0 -5	50 -5	29 -5	2.5 +1.4	3.3 +1.4				
14. Rajasthan (East)	0.5 -4.6	10 +1.6	28.0 -0.4	10.7 -5	45 -0.9	21 -0.9	0.8 -0.9	1.4 -0.9	28. Mysore (South)	0 -4.6	0 -0.1	31.1 +1.3	18.4 +0.7	65 0	28 0	3.3 +1.5	3.5 +1.5				
									29. Kerala	49.8 +35.0	336 +0.3	31.6 +0.6	24.1 -5	77 -5	67 -5	3.4 +1.4	4.1 +1.4				
									30. Arabian Sea Islands	2.5 -7.5	25 +1.3	31.7 +0.7	24.8 +3	77 +3	74 +3	4.1 +1.3	4.1 +1.3				

NOTE.—The entries in the second line for each division and sub-division indicate departures from normal.

*Data of Himachal Pradesh not included.

58 TABLE II.—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—FEBRUARY, 1958. (MAGHA 12—PHALGUNA 9, 1879 SAKA)

Division and station.	Air temperature in °C										Rainfall in millimetres					No. of rainy days (2.5 mm. or more)			Wind speed, Km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall	Line squall				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29				
Bay Islands																																
Maya Bandar	27.1	..	28.7	14	22.7	..	17.9	11	0	0	..	0	..	0	..	10.9	6.9	..	0	0	0	0	0	0	0	0	0	0	0	0		
Long Island	30.8	..	32.2	1	22.1	..	20.1	10	3.3	12.2	..	8.9	..	1	1	2.6	1.1	..	3	0	0	0	0	0	0	0	0	0	0	0		
Port Blair	31.9	+0.2	33.3	1	22.5	+1.1	18.5	11	0	2.6	25.6	1.3	1	0	-2.0	12.5	9.3	-2.1	3	0	0	0	5	0	0	0	0	0	0	0		
Car Nicobar	31.0	..	32.0	26	23.9	..	17.4	20	0	11.4	..	5.6	2	2	..	9.9	6.2	..	4	0	0	0	0	0	0	0	0	0	0	0		
Nancowry	30.9	..	33.2	10	25.2	..	23.7	11	11.9	63.0	..	26.4	1	7	..	0.3	0.2	..	8	0	0	0	0	0	0	0	0	0	0	0		
Kondul	29.3	..	30.0	13,17,22	26.1	..	23.3	1	12.2	010.9	..	85.9	1	3	..	12.0	9.7	..	4	0	0	0	0	0	0	0	0	0	0	0		
Assam (Including Manipur, Tripura)																																
Pasighat	20.5	..	25.9	28	13.6	..	9.6	18	11.9	67.5	..	11.9	26	9	..	10.3	13.8	..	17	0	0	1	0	0	0	0	0	0	0	0	0	
Digboi	21.6	..	26.9	25	12.1	..	7.6	2	9.2	57.2	..	8.6	26	9	..	4.0	4.1	..	15	0	0	0	7	0	0	0	0	0	0	0	0	
Dibrugarh	21.9	-0.9	27.7	25	13.3	+0.7	9.4	2	5.9	37.3	-24.7	10.2	5	-1.2	3.8	2.5	+0.9	14	0	0	2	0	0	0	0	0	0	0	0	0		
Dibrugarh (Mohanbari Aerodrome)	21.6	..	26.7	25	12.1	..	7.4	1	4.4	42.1	..	8.1	5	7	..	6.9	4.0	..	11	0	1	6	3	0	0	0	1	0	0	0		
North Lakhimpur	21.7	..	26.6	25	11.7	..	5.4	2	11.3	60.2	..	12.2	5	10	..	7.0	6.0	..	15	0	0	2	0	0	0	0	0	0	0	0		
Sibsagar	22.4	-0.4	26.7	25	13.1	+1.1	9.0	1	5.4	26.4	-24.9	4.7	7	4	-1.2	5.4	3.6	+0.5	11	0	0	0	0	0	0	0	0	0	0	0		
Jorhat	12.7	..	8.2	2	1.8	42.8	..	11.2	26	5	
Golaghat	23.4	..	27.8	25,28	5.6	..	1.1	1	0	27.8	..	7.6	23	3	
Gohpur	22.6	..	27.1	25	12.0	..	7.7	1	20.3	58.9	..	21.5	6	5	..	6.5	5.3	..	5	0	0	0	0	0	0	0	0	0	0	0		
Tezpur	24.9	+2.2	28.8	28	14.2	+0.9	10.6	1	0	8.5	-18.9	6.1	26	1	-1.7	8.4	7.0	+3.3	4	0	0	1	0	0	0	0	0	0	0	0		
Tezpur (P.B.O.)	24.1	..	28.3	25	13.5	..	10.0	1	0	11.0	..	6.2	26	2	..	6.3	4.6	..	4	0	0	2	0	0	0	0	0	0	0	0		
Majbat	13.2	32.5	..	8.4	26	5	..	8.1	5.8	..	5	0	0	4	2	0	0	0	0	0	0	0	0	
Chaparmukh	26.1	..	30.1	26,28	12.2	..	11.1	8	0	20.5	..	6.3	15	4	5	0	0	3	2	0	0	0	0	0	0	0	0	
Tangla	24.9	..	28.6	25	12.8	..	8.6	17	0	26.2	..	16.5	26	2	..	8.0	5.2	..	2	0	0	0	0	0	0	0	0	0	0	0		
Gauhati	25.5	-0.1	28.9	26	13.6	+1.5	10.1	17	0	34.2	+4.5	20.3	26	3	+0.4	4.2	2.6	+0.2	3	0	0	1	2	1	0	0	0	0	0	0		
Gauhati (Bhorjor Aerodrome)	25.3	..	28.6	5	11.6	..	7.3	17	0	19.6	..	7.6	26	3	..	7.5	4.4	..	5	0	0	8	5	0	0	0	0	0	0	0	0	
Rangiya	25.7	..	28.9	26	0	45.0	..	35.6	26	3	3	0	0	1	0	0	0	0	0	0	0	0	0	
Goalpara	26.8	..	29.9	26	12.3	..	7.8	12	1.5	54.5	..	31.7	26	3	..	5.4	3.5	..	4	0	0	0	0	0	0	0	0	0	0	0		
Dhubri	25.2	+0.2	28.4	16	14.6	+1.2	11.8	12	6.6	45.2	+26.4	38.6	26	2	+0.5	6.9	6.0	+0.4	2	0	0	1	0	0	0	0	0	0	0	0		
Dhubri (Rupsi Aerodrome)	26.6	..	29.2	26	12.2	..	6.4	16	0	24.9	..	24.9	26	1	..	7.4	4.6	..	1	0	0	2	2	0	0	0	0	0	0	0	0	
Tura	25.4	..	29.1	28	14.9	..	11.3	11	7.1	12.4	..	8.6	20	2	..	5.0	6.8	..	2	0	0	0	0	0	0	0	0	0	0	0		
Agartala	27.6	..	30.6	7,8,28	14.0	..	6.5	11	81.6	76.8	..	45.0	22	5	..	9.7	6.0	..	7	0	0	6	4	0	0	0	2	0	0	0		
Silchar	24.1	-2.9	28.5	28	13.5	+0.3	9.6	12,17	14.5	88.8	+40.8	30.5	21	7	+3.4	3.6	2.3	-0.1	9	0	0	4	2	0	2	0	0	0	0	0	0	
Silchar (Kumbhigram Aerodrome)	25.7	..	29.0	28	13.1	..	9.1	17	20.0	99.0	..	27.4	26	6	..	7.0	8.2	..	10	0	0	8	0	0	0	0	0	0	0	0	0	
Imphal	21.4	..	24.6	28	6.9	..	0.3	13	10.1	40.8	..	9.4	19	5	..	11.4	6.6	..	8	2	0	2	2	0	0	0	0	0	0	0	0	
Haflong	21.6	..	14.6	28	11.2	..	8.9	1	10.2	100.6	..	30.5	26	7	10	0	0	1	2	0	0	0	0	0	0	0	0	
Lumding	26.9	+1.8	30.6	28	10.7	+0.5	5.6	12	5.1	5.9	-27.1	4.6	16	1	-2.0	4.3	3.0	..	3	0	0	0	0	0	0	0	0	0	0	0		
Sub Himalayan West Bengal																																
Coch Behar (C.W.O.)	25.7	..	28.2	26	11.9	..	5.9	16	0	15.5	-5.1	15.5	26	1	-0.8	7.3	4.0	..	1	0	0	2	4	0	0	0	0	0	0	0	0	0
Jalpaiguri	23.8	-1.1	27.8	28	12.6	+0.5	8.7	16	0.5	5.3	-11.7	4.8	26	1	-0.4	10.1	6.3	+4.2	2	0	0	0	2	0	0	0	0	0	0	0	0	
Bagdogra	25.3	..	28.4	25	10.5	..	5.5	16	0	0.3	..	0.3	7	0	..	10.9	6.5	..	1	0	0	1	1	0	0	0	0	0	0	0	0	0
Malda	27.5	+1.2	30.8	28	12.9	+0.6	7.9	11	21.5	21.5	+0.4	19.0	25	2	+0.3	8.6	5.8	+1.1	2	0	0	2	1	0	0	0	0	0				

TABLE II.—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—FEBRUARY, 1958. (MAGHA 12—PHALGUNA 9, 1879 SAKA) 59

(m) Mean or Total for 18 days.

(R) Register not received.

(e) Mean of 26 days.

(n) Mean of 17 days.

(d) Mean of 27 days.

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—FEBRUARY, 1958. (MAGHA 12—PHALGUNA 9, 1879 SAKA)

Division and station	Air temperature in °C									Rainfall in millimetres.						No. of rainy days(2.5mm or more)		Wind speed, Km. per hour		Weather phenomena—No. of days with														
	Mean maximum			Departure from normal		Highest	Date	Mean minimum			Departure from normal		Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation(0.3 mm, or more)	Snow or sleet	Hail	Thunder heard	Fog	Cloudy	Ground frost	Gale	Squall	Line squall
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29					
Punjab (India) (Including Delhi) New Delhi . . .	24.4	+0.6	29.2	27	10.2	+0.8	7.1	15	0	1.0	-20.1	1.0	28	0	-1.7	(h) 9.7	(l) 7.8	-2.8	1	0	0	1	0	0	0	0	0	0	0	0	0			
Hissar . . .	25.9	+1.3	30.2	27	7.5	-0.9	3.7	12	0	4.1	-9.6	4.1	5	1	-0.2	6.5	6.1	-0.2	1	0	0	0	0	0	0	0	0	0	0	0				
Karnal . . .	23.7	..	28.0	27	8.3	..	5.0	11	0	0	..	0	..	0	0	..	..	..	0	0	0	0	0	0	0	0	0	0	0	0	
Patiala . . .	23.7	..	27.9	19	8.6	..	5.0	12	0	1.8	-34.3	1.8	28	0	-2.7	10.5	8.8	..	1	0	0	0	0	0	0	0	0	0	0	0				
Ambala . . .	25.1	+2.3	28.9	27	8.6	-0.2	4.4	12	0	0	-47.5	0	..	0	-3.1	7.2	7.3	+2.0	0	0	0	0	0	0	0	0	0	0	0	0				
Ambala(Aerodrome)	23.9	..	27.4	26	7.6	..	3.3	12	1.1	4.0	..	2.9	5	1	..	..	..	..	2	0	0	1	0	0	0	0	0	0	0	0	0
Chandigarh . . .	25.3	..	28.5	27	10.8	..	6.7	12	0	1.8	..	1.8	5	0	..	..	..	..	1	0	0	0	0	0	0	0	0	0	0	0	
Ludhiana . . .	24.2	+2.4	28.4	27	8.2	-0.4	4.1	10,11	0	7.9	-26.4	7.6	5	1	-1.7	4.4	3.0	+0.3	2	0	0	0	0	0	0	0	0	0	0	0				
Ferozepur . . .	23.9	..	27.5	27	6.5	..	2.7	12	0	0	..	0	..	0	0	..	5.1	2.9	..	0	0	0	0	0	0	0	0	0	0	0				
Amritsar . . .	23.2	..	26.6	24,26	4.5	..	-0.6	10	1.5	3.0	..	1.5	5	0	..	9.9	6.9	..	3	0	0	0	0	0	0	0	0	0	0	0				
Pathankot . . .	22.5	..	27.6	27	8.5	..	4.4	16	5.6	15.0	..	10.9	28	2	..	5.7	3.9	..	3	0	0	0	0	0	0	0	0	0	0	0				
Pathankot(Aerodrome)	22.4	..	26.6	27	7.6	..	3.7	11,12	5.4	9.5	..	7.9	28	1	..	8.4	6.5	..	4	0	0	0	0	0	0	0	0	0	0	0				
Himachal Pradesh																																		
Bilaspur. . .	22.4	..	26.6	26	5.6	..	0.8	11	1.9	1.9	..	0.8	6,28	0	..	4.6	3.3	..	3	0	0	0	14	0	0	0	0	0	0	0	0			
Mandi . . .	20.7	..	24.0	27	5.1	..	1.0	11	1.3	7.9	..	6.9	27	1	..	3.2	2.6	..	3	0	0	1	7	0	0	0	0	0	0	0	0			
Jammu and Kashmir																																		
Srinagar . . .	10.1	+3.4	14.3	23	0.2	+1.6	-1.7	12	0.5	14.7	-57.4	9.6	2	2	-4.2	6.1	5.3	+1.4	3	2	0	0	0	0	12	0	0	0	0	0				
Gulmarg . . .																																		
Sonamarg *																																		
Dras . . .																																		
Kargil . . .																																		
Leh . . .	-1.8	-2.4	1.4	3	-15.1	-0.3	-21.5	3	0	5.4	-2.5	2.5	6	1	+0.1	3.4	4.1	+1.8	4	7	0	0	0	0	0	0	0	0	0	0	0			
Skardu (R) . . .																																		
Gurez . . .																																		
Gilgit (R) . . .																																		
Misgar (R) . . .																																		
Jammu . . .	22.6	+2.3	26.5	26	9.3	-1.4	6.9	9	..	15.0	-46.7	13.5	5	1	-2.7	..	..	..	3	0	0	0	0	0	0	0	0	0	0	0	
Gund . . .																																		
Pandras. . .																																		
Panamik . . .																																		
Khangral . . .																																		
Digar . . .																																		
Khalatse . . .																																		
Mulbik (R) . . .																																		
Rajasthan (West)																																		
Sri Ganganagar . . .	25.2	+2.1	28.3	24	7.9	+0.3	5.0	11	0.3	0.3	-28.4	0.3	28	0	-2.0	3.0	2.0	-4.8	1	0	0	0	0	0	0	0	0	0	0	0				
Churu . . .	26.3	..	30.0	27	7.8	..	3.0	15,16	0	0.5	..	0.5	28	0	..	7.5	5.2	..	1	0	0	0	0	0	0	0	0	0	0	0				
Bikaner . . .	26.9	+0.7	30.4	27	8.5	+0.1	5.1	21	0	0	-6.9	0	..	0	-0.7	5.4	4.1	-1.7	0	0	0	0	0	0	0	0	0	0	0	0				
Jaisalmer . . .	28.3	..	32.2	18,19	10.0	..	4.3	15	0	0	..	0	..	0	..	9.2	7.1	..	0	0	0	0	0	0	0	0	0	0	0	0				
Phalodi . . .	26.7	..	31.1	18	11.0	..	6.1	11	0	0	-4.8	0	..	0	-0.5	11.1	8.3	..	0	0	0	0	0	0	0	0	0	0	0	0				
Jodhpur. . .	29.1	+2.1	32.5	18	13.0	+1.6	10.2	2,17	0	0	-6.1	0	..	0	-0.6	10.5	7.5	-3.4	0	0	0	0	0	0	0	0	0	0	0	0				
Barmer . . .	30.1	+2.7	33.7	18	14.3	+1.2	11.2	1	0	0	-7.1	0	..	0	-0.6	9.1	8.0	+0.1	0	0	0	0	0	0	0	0	0	0	0	0				
Rajasthan (East)																																		
Alwar (R) . . .																																		
Sikar . . .	27.0	..	30.6	18,19	7.6	..	1.7	15	0	0	..	0	..	0	..	9.4	5.6	..	0	0	0	0	0	0	0	0	0	0	0	0	0			
Jaipur . . .	26.7	+1.7	30.3	19	11.3	+1.0	6.1	1	1.5	2.5	-5.6	-2.5	28	1	+0.2	7.8	6.0	-0.3	1	0	0	0	0	0	0	0	0	0	0	0				
Jaipur (Sanganer Aerodrome).	26.2	..	29.9	19	11.0	..	6.1	1	3.8	4.6	..	4.6	28	1	..	..	..	..	1	0	0	0	0	0	0	0	0	0	0	0	
Dholpur . . .	27.4	..	31.7	19	9.4	..	5.7	1	12.9	19.3	..	19.3	28	1	..	8.1	5.4	..	1	0	1	2	0	0	0	0	0	0	0	0				
Ajmer . . .	26.2	+1.2	29.8	19	8.8	-1.1	3.9	1	0	0	-6.6	0	..	0	-0.7	7.7	4.9	+1.5	0	0	0	0	0	0	0	0	0	0	0	0				
Kotah . . .	29.8	+2.0	33.3	19	13.0	0	8.4	1	0	0	-5.3	0	..	0	-0.5	3.0	1.8	-0.9	0	0	0	0	0	0	0	0	0	0	0	0				
Chambal . . .	29.1	..																																

* Data not reliable.

(R) Register not received.

(1) Mean of 19 days.

(h) Mean of 23 days.

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—FEBRUARY, 1958 (MAGHA 12—PHALGUNA 9, 1879 SAKA) 61

Division and station	Air temperature in °C.								Rainfall in millimetres						No. of rainy days (2.5mm. or more).		Wind speed, Km. per hour.		Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall	Line squall		
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29		
1																														
Madhya Pradesh (West)—contd.																														
Ratlam . . .	29.9	..	33.1	18	13.2	..	9.9	1	0	0	..	0	..	0	..	6.6	4.9	..	0	0	0	0	0	0	0	0	0	0		
Alirajpur . . .	30.9	..	34.2	18	12.1	..	8.7	18	0	0	..	0	..	0	..	9.3	5.4	..	0	0	0	0	0	0	0	0	0	0		
Indore . . .	29.5	+0.8	32.2	18,19	11.1	+0.5	8.1	2	0	0	-3.6	0	..	0	-0.5	13.4	10.7	..	0	0	0	0	0	0	0	0	0	0		
Bhopal (Bairagarh) . . .	29.2	+1.0	32.3	19	12.0	-0.6	8.3	1	0	0	-3.8	0	..	0	-0.5	10.9	9.6	+1.9	0	0	0	0	0	0	0	0	0	0		
Khandwa . . .	32.4	+0.9	34.8	24	14.3	+1.0	8.5	1	0	0	-4.1	0	..	0	-0.4	7.6	4.7	-0.8	0	0	0	0	0	0	0	0	0	0		
Hoshangabad . . .	31.2	+1.8	34.1	27	15.1	+0.9	9.5	3	0	0	-9.7	0	..	0	-0.9	2.2	1.4	-2.1	0	0	0	0	0	0	0	0	0	0		
Betul . . .	30.0	..	32.8	24,27	12.1	..	6.8	1	0	0	..	0	..	0	..	8.1	5.1	..	0	0	0	0	0	0	0	0	0	0		
Chhindwara . . .	28.8	..	31.9	24	12.9	..	5.9	1	0	1.8	..	1.8	26	0	..	9.7	6.7	..	1	0	0	2	0	0	0	0	0	0		
Seoni . . .	29.7	+1.4	32.3	19	14.0	+1.3	9.9	1	25.1	25.4	+4.8	25.4	27	1	-1.0	8.9	5.1	+0.6	1	0	1	1	0	0	0	0	0	0		
Sagar . . .	28.2	+0.9	31.4	19	13.4	+0.2	9.8	16	0	0	-11.9	0	..	0	-1.2	10.1	7.5	..	0	0	0	1	0	0	0	0	0	0		
Nowrang . . .	28.5	+1.8	32.3	5,19	8.8	-1.6	4.5	1	0	0	-14.5	0	..	0	-1.3	6.9	3.5	+0.9	0	0	0	1	0	0	0	0	0	0		
Madhya Pradesh (East)																														
Sutna . . .	28.3	+2.0	31.9	19,20	11.3	+0.1	6.8	1	2.3	7.6	-12.2	6.6	28	1	-0.8	8.0	4.3	+0.1	3	0	1	2	0	0	0	0	0	0		
Umaria . . .	28.6	+1.3	32.7	19	11.2	+0.3	5.6	1	16.0	47.8	+22.4	17.0	25	6	+4.1	7.3	4.1	+0.1	6	0	1	5	1	0	0	0	0	0		
Jabalpur . . .	30.0	+2.6	33.1	14,19	11.9	+1.3	7.3	1	24.8	25.8	+6.5	12.5	28	2	+0.3	6.3	4.0	+1.3	3	0	1	2	0	0	0	0	0	0		
Mandla . . .	29.4	..	32.3	19	11.1	..	4.3	1	23.1	69.6	..	26.7	27	5	..	6.7	3.0	..	5	0	2	5	0	0	0	0	0	0		
Pendra . . .	27.4	+1.8	30.8	20	14.2	+1.7	8.2	1	1.3	22.2	-15.1	9.1	13	3	+0.1	12.0	7.9	..	5	0	0	4	1	0	0	0	0	0		
Ambikapur . . .	26.5	..	30.6	20	11.2	..	5.7	2	53.5	69.2	..	34.3	14	5	..	10.4	7.5	..	6	0	1	4	0	1	0	0	0	0		
Champa . . .	30.3	..	33.8	20	16.3	..	11.2	1	3.1	47.0	..	24.1	25	3	..	7.0	5.3	..	5	0	0	5	0	0	0	0	0	0		
Raigarh . . .	31.1	..	34.6	21	16.5	..	11.1	2	41.1	76.2	..	26.6	28	4	..	6.1	5.0	..	4	0	0	1	0	0	0	0	0	0		
Raipur . . .	31.0	+1.0	33.9	19,20	16.7	+1.1	11.8	2	35.3	60.8	+38.7	29.5	25	4	+2.2	7.0	6.4	+0.6	5	0	3	3	0	0	0	0	0	0		
Kanker . . .	30.6	+0.8	33.0	21	15.9	+1.2	8.3	2	8.4	18.9	-2.9	8.4	25	2	-0.1	4.5	3.9	-0.4	4	0	1	2	0	0	0	0	0	0		
Jagdalpur (P.B.O.) . . .	31.6	+1.3	33.1	19	15.4	+1.1	8.6	3	0.3	4.2	-23.2	4.2	25	1	-0.6	7.5	4.1	..	1	0	0	1	0	0	0	0	0	0		
Gujarat																														
Deesa . . .	30.8	..	33.2	18	11.8	..	8.3	2	0	0	..	0	..	0	..	9.0	7.0	..	0	0	0	0	0	0	0	0	0	0		
Idar . . .	30.6	..	33.4	18	15.4	..	10.7	2,10	0	0	..	0	..	0	..	8.9	7.9	..	0	0	0	0	0	0	0	0	0	0		
Ahmedabad . . .	31.6	+1.2	34.4	18,19	13.5	-0.5	9.7	13	0	0	-2.0	0	..	0	-0.2	9.6	6.4	+2.2	0	0	0	0	0	0	0	0	0	0		
Dohad . . .	30.5	+0.1	33.9	18	14.9	+1.3	11.1	10	0	0	-1.0	0	..	0	-0.2	10.5	9.8	+4.7	0	0	0	0	0	0	0	0	0	0		
Baroda . . .	33.1	+1.2	36.2	18	12.6	-0.1	8.7	13,14	0	0	-5.3	0	..	0	-0.3	4.5	3.0	-0.7	0	0	0	0	0	0	0	0	0	0		
Baroda (Aerodrome) . . .	32.4	..	35.4	18	13.5	..	9.9	13,14	0	0	..	0	..	0	..	7.6	5.4	..	0	0	0	0	0	0	0	0	0	0		
Broach . . .	33.6	..	37.9	18	15.0	..	11.6	13,15	0	0	..	0	..	0	..	6.4	5.5	..	0	0	0	0	3	0	0	0	0	0		
Surat . . .	33.2	+1.3	37.8	17,18	16.5	+0.9	12.7	13	0	0	-2.0	0	..	0	-0.2	8.2	6.5	+1.4	0	0	0	0	0	0	0	0	0	0		
Saurashtra and Kutch																														
Bhuj (P.B.O.) . . .	30.2	+1.5	33.8	18	13.9	+0.3	10.3	15	0	0	-4.3	0	..	0	-0.4	9.3	6.0	-1.4	0	0	0	0	0	0	0	0	0	0		
Bhuj (Aerodrome) . . .	30.1	..	33.6	18	13.3	..	9.8	16	0	0	..	0	..	0	..	11.1	8.3	..	0	0	0	0	0	0	0	0	0	0		
Kandla . . .	29.4	..	33.2	26	16.1	..	13.2	12	0	0	..	0	..	0	..	13.6	12.4	..	0	0	0	0	0	0	0	0	0	0		
Mandvi . . .	27.2	..	30.1	18	15.2	..	12.0	23	0	0	..	0	..	0	..	20.5	17.7	..	0	0	0	0	12	0	0	0	0	0	0	
Dwarka . . .	27.5	+1.7	31.6	2	18.9	+1.6	16.1	4 days	0	0	-6.1	0	..	0	-0.5	17.5	15.6	+1.6	0	0	0	0	2	0	0	0	0	0	0	
Porbander . . .	30.3	..	34.9	18	17.1	..	13.3	25	0	0	..	0	..	0	0	0	0	0	1	0	0	0	0	0	0	
Porbander (Aerodrome)	0	0	0	0	0	0	0	0	0	0	0	
Jamnagar	12.9	+0.9	8.6	16	0	0	-2.0	0	..	0	-0.2	0	0	0	0	0	0	0	0	0
Rajkot (Aerodrome) . . .	31.1	+0.8	33.8	18	12.3	-0.1	8.3	14																						

62 TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—FEBRUARY, 1958 (MAGHA 12—PHALGUNA 9, 1879 SAKA)

Division and station	Air temperature in °C									Rainfall in millimetres						No. of rainy days (2.5 mm. or more)		Wind speed, Km. per hour		Weather phenomena—No. of days with												
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.3 mm. or more)	Snow or sleet	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29				
Maharashtra—contd.																																
Malegaon . . .	33.0	+0.8	35.7	19	13.1	+0.5	9.4	14	0	0	-2.3	0	..	0	-0.2	8.6	7.4	+0.6	0	0	0	0	0	0	0	0	0	0	0			
Deolali . . .	31.3	..	33.9	19	12.5	..	8.1	15	0	0	..	0	..	0	..	10.4	7.7	..	0	0	0	0	0	0	0	0	0	0	0	0		
Aurangabad . . .	32.5	+1.1	35.0	19	15.9	+0.6	12.2	3	0	0	-4.3	0	..	0	-0.4	11.2	9.9	+1.2	0	0	0	0	0	0	0	0	0	0	0	0		
Aurangabad (Chikalthana Aerodrome) . . .	32.0	..	34.6	19	12.8	..	7.7	3	0	0	..	0	..	0	..	12.0	9.0	..	0	0	0	0	0	0	0	0	0	0	0	0		
Khandala . . .	..	..	..	..	..	..	..	..	..	0	-3.1	0	..	0	-0.3	..	..	..	0	..	..	..	..	..	..	..	..	..	..	..
Ahmednagar . . .	32.1	+0.7	34.6	18,19	13.8	+0.5	10.1	20	0	0	-3.3	0	..	0	-0.3	8.8	6.3	-1.4	0	0	0	0	0	0	0	0	0	0	0	0		
Parbhani . . .	33.4	..	36.4	19	15.7	..	11.1	3	0	0	-7.4	0	..	0	-0.7	9.7	7.9	..	0	0	0	0	0	0	0	0	0	0	0	0		
Poona . . .	32.9	+0.4	35.9	18	13.4	+0.6	9.0	22	0	0	-1.5	0	..	0	-0.2	5.0	3.3	-3.5	0	0	0	0	0	0	0	0	0	0	0	0		
Poona (Lohagaon Aerodrome) . . .	31.9	..	35.7	24	14.0	..	8.6	22	0	0	..	0	..	0	..	11.9	8.7	..	0	0	0	0	0	0	0	0	0	0	0	0		
Baramati . . .	33.0	..	35.2	19	14.3	..	9.4	23	0	0	..	0	..	0	..	11.9	8.7	..	0	0	0	0	0	0	0	0	0	0	0	0		
Jeur . . .	33.5	..	35.4	19	13.8	..	9.5	4	0	0	..	0	..	0	..	11.5	7.9	..	0	0	0	0	0	0	0	0	0	0	0	0		
Sholapur . . .	33.6	0	35.7	19	17.1	0	14.3	4	0	0	-3.3	0	..	0	-0.3	9.9	7.6	-1.3	0	0	0	0	0	0	0	0	0	0	0	0		
Miraj . . .	32.8	+0.3	35.4	18	15.0	0	11.2	25	0	0	0	0	..	0	..	10.3	8.2	+0.8	0	0	0	0	0	1	0	0	0	0	0	0		
Kolhapur . . .	32.3	-0.5	35.2	18	15.5	-0.4	12.0	25	0	0	-0.5	0	..	0	-0.1	11.3	8.9	-0.1	0	0	0	0	0	0	0	0	0	0	0	0		
Vidarbha																																
Buldhana . . .	29.9	..	33.1	27	17.7	..	11.3	4	0	0	..	0	..	0	..	9.3	7.9	..	0	0	0	0	0	0	0	0	0	0	0	0		
Akola . . .	33.7	+1.1	36.1	27	15.1	+0.8	10.3	2	0	0	-7.6	0	..	0	-0.6	8.5	6.0	+1.0	0	0	0	0	0	0	0	0	0	0	0	0		
Amravati . . .	33.0	+1.2	35.8	24	17.4	+0.7	12.7	4	0	0	-11.2	0	..	0	-0.8	12.1	9.1	+2.7	0	0	0	0	0	0	0	0	0	0	0	0		
Yeotmal . . .	32.9	..	35.4	19	17.9	..	13.3	2	0	0	..	0	..	0	..	14.0	10.4	..	0	0	0	0	0	0	0	0	0	0	0	0		
Nagpur . . .	32.9	+0.8	35.3	14,24	15.1	-0.2	9.0	2	0	0	-16.5	0	..	0	-1.4	12.3	9.7	..	0	0	0	0	0	0	0	0	0	0	0	0		
Condia . . .	31.0	..	33.9	25	16.1	..	10.6	2	12.0	12.8	..	7.4	27	2	..	6.4	3.3	..	2	0	0	2	0	0	0	0	0	0	0	0		
Brahmapuri . . .	32.5	..	36.2	22	16.4	..	9.9	2	0	0	..	0	..	0	..	9.6	6.8	..	0	0	0	0	0	0	0	0	0	0	0	0		
Chanda . . .	33.9	+1.5	36.4	24	16.7	+1.4	8.9	2	0	2.8	-17.8	2.8	28	1	-0.3	9.2	6.0	+2.6	1	0	0	0	0	0	0	0	0	0	0			
Sironcha . . .	34.1	..	36.6	19	18.6	..	10.8	2	3.1	25.2	..	13.5	24	3	..	7.6	5.9	..	3	0	0	1	0	0	0	0	0	0	0	0		
Coastal Andhra																																
Pradesh Nellore . . .	32.9	+1.0	35.8	20	21.6	+0.6	18.3	5	1.8	1.8	-4.3	1.8	2	0	-0.5	12.3	8.2	+2.9	1	0	0	0	0	0	0	0	0	0	0	0		
Ongole . . .	28.8	..	32.1	20,21	22.4	..	19.1	5	0	8.4	..	8.4	25	1	..	10.8	7.2	..	1	0	0	0	0	0	0	0	0	0	0	0		
Rentachintala . . .	35.1	+1.5	37.8	20	21.5	+0.9	16.4	3	0	2.0	-11.5	2.0	24	0	-1.3	7.6	6.7	-1.2	1	0	0	0	0	0	0	0	0	0	0	0		
Gannavaram . . .	33.1	..	34.6	9	20.5	..	16.8	14	0	0	..	0	..	0	..	15.0	10.6	..	0	0	0	0	0	0	0	0	0	0	0	0		
Masulipatam . . .	30.5	+0.4	33.4	9	21.8	+1.0	18.8	5	0	0	-13.5	0	..	0	-0.6	14.3	9.4	+8.3	0	0	0	0	0	0	0	0	0	0	0	0		
Nidadavolu . . .	32.4	..	34.4	9	20.1	..	17.4	3	0	0	..	0	..	0	..	8.6	6.1	..	0	0	0	0	0	0	0	0	0	0	0	0	0	
Kakinada . . .	31.9	+2.1	33.7	9	20.8	-0.1	18.7	3	0	0	-8.1	0	..	0	-0.6	12.3	9.0	+1.4	0	0	0	0	0	0	0	0	0	0	0	0		
Visakhapatnam . . .	31.5	-0.2	33.5	9	20.4	+0.6	16.0	4	0	0	-23.9	0	..	0	-1.1	16.6	9.5	+4.4	0	0	0	0	0	0	0	0	0	0	0	0		
Calingapatam . . .	29.9	-0.3	32.3	9	20.7	+0.8	16.7	2	0	0	-15.5	0	..	0	-1.3	11.1	10.5	+2.5	0	0	0	0	0	0	0	0	0	0	0	0		
Telengana																																
Ramagundam . . .	34.3	..	36.8	19	20.0	..	11.6	2	3.8	8.6	..	8.1	27	1	..	9.4	7.1	..	2	0	0	1	0	0	0	0	0	0	0	0	0	
Nizamabad . . .	33.5	+0.8	36.2	19	17.6	+0.9	11.9	2	0	0	-17.0	0	..	0	-1.2	5.1	5.0	+1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Mahububnagar . . .	32.7	..	34.3	20	18.6	..	13.9	4	0	7.9	..	7.9	27	1	..	10.2	7.1	..	1	0	0	0	0	0	0	0	0	0	0	0	0	
Hyderabad (Begum-pet Aerodrome) . . .	31.9	+1.2	33.9	16	16.8	0	10.0	3	0	9.4	+0.3	7.4	27	1	+0.1	12.3	8.3	+0.1	2	0	0	1	1	0	0	0	0	0	0	0	0	
Hakimpet . . .	31.0	..	33.4	19	18.5	..	15.1	5	0	21.1	..	13.2	24	2	2	0	0	0	1	0	0	0	0	0	0	0	0	0
Hanamkonda . . .	33.3	+1.4	35.9	19	19.6	+0.8	14.7	1,2	1.8	11.7																						

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—FEBRUARY, 1958 (MAGHA 12—PHALGUNA 9, 1879 SAKA) 63

[†] Data given as addenda in December 1958 issue.

~~Temporarily closed~~

→ Means \pm S.E. down

(B) Positive and negative

(d) Mean of 27 days.

Division and station	Air temperature in °C									Rainfall in millimetres					No. of rainy days (2.5 mm. or more)			Wind speed, Km. per hour.		Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Scal.	Line squall			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29		
hill Stations excluding Kashmir Contd. Cyclang	11.5	-53.0	6.6	28	2	-3.8	..	..	..	3	..	..	..	..	..	..	..	..	..	..
Gondla	13.9	..	7.6	28	3	..	..	..	..	3	..	..	..	..	..	..	..	..	..	..
Kothi	67.0	..	16.5	28	6	..	..	..	..	6	..	..	..	..	..	..	..	..	..	..
Koksar	52.1	..	15.7	18	4	..	..	..	..	4	..	..	..	..	..	..	..	..	..	..
Dalhousie	..	13.7	..	17.3	24	3.7	..	0.6	10	6.1	39.7	-129.2	25.4	28	2	-6.5	3.7	4.3	..	6	0	0	0	0	0	0	0	0	0		
Dharamshala	..	16.7	..	20.5	27	7.7	..	4.4	10,11,12	5.6	33.3	..	20.3	28	4	..	7.1	5.7	..	4	0	0	2	0	0	0	0	0	0		
Abu	..	21.7	+1.7	25.4	17	11.6	-0.1	9.1	14	0	0	-5.8	0	..	0	-0.6	8.7	8.0	+0.9	0	0	0	0	0	3	0	0	0	0		
Pachmarhi	..	26.0	+1.9	27.8	14	10.7	+0.3	2.3	1	7.6	7.6	-9.4	7.6	27	1	-0.5	7.9	5.6	+0.6	1	0	1	1	0	0	0	0	0	0		
Mahabaleshwar	..	26.5	+1.3	29.4	19,20	13.5	-1.1	9.7	27	0	0	-2.5	0	..	0	-0.1	10.3	9.9	+0.6	0	0	0	0	0	0	0	0	0	0		
Nandi Hills	0	..	0	..	0	..	..	..	0	0	0	0	0	0	0	0	0	0	0		
Mercara	..	27.0	0	23.6	17	15.8	+0.8	14.6	8,21	0	0	-6.1	0	..	0	-0.5	9.0	8.1	-2.8	0	0	0	0	0	0	0	0	0	0		
Kodaikanal	..	18.0	+0.2	20.1	17,20,22	9.2	+0.6	6.3	13	0.5	11.9	-27.0	6.1	25	2	-0.4	11.5	12.0	-0.6	5	0	0	3	9	0	0	0	0	0	0	
Ootacamund	..	20.3	+0.6	22.8	17	6.8	+	3.3	13	4.6	12.0	-0.9	7.4	1	2	+0.9	3.8	2.3	-2.2	4	0	0	0	0	0	0	0	0	0		
Coonoor	..	21.2	+0.2	23.3	22	11.1	+1.6	8.0	13	..	107.4	+34.8	98.3	1	2	-0.7	..	4.6	-0.7	3	0	0	0	0	0	0	0	0	0		
Sikkim	64.2	..	10.2	21	11	..	..	..	..	22	..	..	..	..	..	..	..	..	..	..
Thangu	78.7	..	23.1	26	7	..	..	..	..	7	..	..	..	..	..	..	..	..	..	..
Chungthang	112.8	..	17.0	23	17	..	..	..	..	17	..	..	..	..	..	..	..	..	..	..
Lachen	..	17.7	..	18.9	22	-4.4	..	-5.6	8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tibet	Yatung (Chumbi)	9.6	+2.3	12.3	4,6	-7.4	-1.7	-11.7	5	..	31.7	-22.9	12.7	25	5	+1.1	..	..	..	8	8	0	0	0	0	0	0	0	0	0
Lhasa	..	8.7	..	19.4	11	-4.8	..	-11.1	2	..	0	..	0	..	0	..	4.1	..	0	0	3	0	0	0	0	0	0	0	0	0	
Ceylon	Colombo	29.9	-1.2	32.0	17	22.7	+0.4	21.0	7 days	35.6	179.4	+124.0	73.1	27	5	+1.5	..	..	..	5	0	0	0	0	0	0	0	0	0	0
Trincomalee	..	29.0	-0.4	31.0	6 days	24.4	+0.5	22.0	4 days	23.1	81.8	+22.4	48.5	2	2	-0.9	..	..	..	2	0	0	0	0	0	0	0	0	0	0
Batticaloa	..	28.6	..	30.0	7 days	23.6	..	21.0	4,5	15.5	145.3	..	82.5	2	3	..	..	..	..	9	0	0	0	0	0	0	0	0	0	0
Hambantota	..	30.1	+0.2	32.0	16	23.4	+1.0	21.0	4,15	8.5	25.5	-14.9	11.9	2	4	+0.2	..	..	..	4	0	0	0	0	0	0	0	0	0	0
Mannar	..	30.1	..	32.0	5 days	23.9	..	22.0	4 days	0	3.6	..	3.6	2	1	..	..	..	..	1	0	0	0	0	0	0	0	0	0	0
Hydrometeorological Observatories																															
Damodar Catchment	Bokaro	28.8	..	32.9	21	11.9	..	6.3	1	3.6	19.1	..	9.7	14	2	..	8.8	5.9	..	3	0	0	4	1	0	0	0	0	0	0	
Hazaribagh	..	23.3	..	26.1	21	11.0	..	6.1	2	22.8	34.8	..	27.4	14	3	..	4.3	2.4	..	4	0	0	0	5	2	0	0	0	0	1	
Tilaiya	..	26.9	..	31.8	21	13.9	..	9.6	1,17	3.3	24.8	..	19.1	28	2	..	13.2	8.5	..	4	0	0	0	4	0	0	0	0	0	0	
Ramgarh	..	29.4	..	33.5	21	11.1	..	5.7	1	8.9	19.4	..	8.6	14	3	..	6.5	3.2	..	5	0	0	4	0	0	0	0	0	0	0	
Panchet Hills	..	29.4	..	34.9	21	14.9	..	10.1	11	8.6	13.9	..	11.9	14	1	..	10.4	7.0	..	2	0	0	1	0	0	0	0	0	0	0	
Durgapur	..	28.9	..	35.0	21	15.0	..	10.8	1,11	2.3	11.7	..	4.1	15	3	..	11.3	8.3	..	4	0	0	0	0	0	0	0	0	0	0	
Asansol	13.7	..	12.2	14	1	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..
Dhanwar	4.6	..	4.6	14	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..
Dumri	17.8	..	10.2	28	2	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..
Bishnugarh	18.1	..	10.7	14	2	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..
Chandwa	53.3	..	27.9	28	2	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..
Maithon	18.5	..	14.2	14	2	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..
Mahanadi Catchment	Baramul	32.3	..	36.1	21	14.8	..	7.1	2	31.5	68.5	..	39.1	25	4	..	2.6	1.7	..	4	0	0	5	0	0	0	0	0	0	0	0
Hirakud	..	30.6	..	34.9	21	17.3	..	11.6	2	6.9	24.4	..	14.5	25	3	..	5.7	4.3	..	4	0	1	1	0	0	0	0	0	0	0	
Khijrawan	..	31.3	..	33.4	19	14.4	..	5.3	2	16.2	18.5	..	11.4	25	2	..	..	..	..	4	0	1	1	0	0	0	0	0	0	0
Sonepur	..	31.7	..	35.3	22	13.7	..	10.8																							

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—FEBRUARY, 1958 (MAGHA 12—PHALGUNA 9, 1879 SAKA) 65

Division and station	Air temperature in °C									Rainfall in millimetres					No. of rainy days (2.5 min. or more)			Wind speed, Km. per hour		Weather phenomena—No. of days with								
	Mean maximum 2	Departure from normal 3	Highest 4	Date 5	Mean minimum 6	Departure from normal 7	Lowest 8	Date 9	Total fall during 0830-1730 hours. 10	Total fall in 24 hours 11	Departure from normal 12	Heaviest fall in 24 hours 13	Date 14	Total in the month 15	Departure normal 16	Mean between 0830-1730 hours 17	Mean 24 hours 18	Departure normal 19	Precipitation (0.3 mm. or more) 20	Snow or sleet 21	Hail 22	Thunder heard 23	Fog 24	Dust-storm 25	Ground frost 26	Gale 27	Squall 28	Line squall 29
Hydrometeorological Observatories—contd.																												
Ganga Catchment— <i>Contd.</i> Lehri	22.5	..	25.7	19	..	..	..	..	12.5	13.5	..	7.4	6	1	..	..	..	..	4	0	0	0	0	0	0	0	0	0
Gandak Catchment— Gurkha	20.6	..	23.4	28	10.7	..	7.8	1	0.5	0.3	..	0.3	21	0	..	..	..	..	1	..	..	..	..	..	..	..	..	..
Pokhara	21.0	..	24.3	28	9.9	..	7.4	16	10.0	10.5	..	9.4	26	1	..	..	..	..	4	..	..	..	..	..	..	..	..	..
Nawakot	22.9 (h)	..	26.2	28	10.5	..	8.4	1	0	0	..	0	..	0	..	..	..	..	0	..	..	..	..	..	..	..	..	..
Jomsom	12.4 (f)	..	20.0	6	-1.3	..	-3.8	15	5.1	20.3	..	15.2	28	2	..	..	..	..	2	..	..	..	..	..	..	..	..	..
Timure	16.8	..	19.9	1	4.4	..	2.3	2	0	2.5	..	2.5	28	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..
Gogra Catchment (Trans Himalayan Region)	17.1	..	18.7	24	..	..	..	..	4.8	8.1	..	5.1	28	1	..	..	..	..	3	..	..	..	..	..	..	..	..	..
Dalekh																												
Gogra Catchment Dandelihura	..	..	..	..	..	5.7	..	3.0	21	0	7.8	..	5.3	21	1	..	..	..	3	..	..	..	..	..	..	..	..	..
Munsiyari	..	..	..	..	..	..	..	..	..	18.6	..	9.7	20	3	..	..	..	..	4	..	..	..	..	..	..	..	..	..
Sallyana (R)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Butwal	25.4	..	28.6	25,26,27	13.5	..	7.3	16	3.8	2.5	..	1.5	21	0	..	..	..	..	2	..	..	..	..	..	..	..	..	..
Bagmati Catchment	20.3	..	22.8	28	3.1	..	0.5	16	0	0	..	0	..	0	..	3.9	2.0	..	0	0	0	1	5	0	1	0	0	0
Kosi Catchment—																												
Chautara	19.7	..	22.9	28	7.9	..	5.6	1.4	0	0	..	0	..	0	..	..	..	0	..	..	..	..	..	..	..	..	..	..
Okhaldhunga	15.7	..	18.7	27	5.3	..	2.7	16	0.5	0.3	..	0.3	28	0	..	5.0	4.1	..	1	0	0	0	0	0	0	0	0	0
Barahkshetra	25.0	..	28.8	25	12.1	..	8.4	17	0	0	..	0	..	0	..	9.0	6.1	..	0	0	0	0	0	0	0	0	0	0
Angbung	19.6	..	23.4	20	9.1 (e)	..	4.8	7	..	9.2	..	4.1	6	2	..	..	..	..	4	..	..	..	..	..	..	..	..	..
Taplejung	14.9	..	17.3	28	5.8	..	3.4	1	1.3	7.2	..	4.8	3	1	..	..	..	..	3	0	0	1	2	0	0	0	0	0
Taplethok	24.4	..	28.1	24	10.1	..	6.3	4	..	15.4	..	5.1	28	2	..	..	..	..	7	..	..	..	..	..	..	..	..	..
Wallungchung Gola (R)	15.0	..	18.4	26	7.5	..	5.6	17	0	0	..	0	..	0	..	..	..	..	0	..	..	..	..	..	..	..	..	..
Chainpur	19.4	..	22.4	28	9.3	..	7.2	19	0	1.3	..	1.3	2	0	..	..	..	..	1	..	..	..	..	..	..	..	..	..
Tista Catchment																												
Gangtok	12.6	..	17.2	21	4.9	..	2.1	1	13.1	76.7	..	15.8	10	7	..	4.6	2.9	..	16	0	2	5	8	0	1	0	0	0
Geyzing	15.3	..	20.6	28	6.5	..	4.4	17	0	22.1	..	11.2	9	3	..	..	..	..	5	..	..	..	..	..	..	..	..	..

(R) Register not received.

(f) Mean of 25 days.

(h) Mean of 23 days.

(e) Mean of 26 days.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—FEBRUARY, 1958 (MAGHA 12—PHALGUNA 9, 1879 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas)	Wind speed (Km. p. h.)	No. of observations														
			At mean sea level or height in g.p.m. nearest stand. and isolatic level			At station level								Wind direction														
			4	5	6	7	8	9						19	20	21	22	23	24	25	26	27	28					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	16	17	18	19	20	21	22	23	24	25	26	27	28		
Bay Islands Maya Bandar	0830	23	1014.1	1011.4	..	26.4	23.3	21.8	26.3	77	..	2.8	..	1.7	0	0	7	0	0	0	0	0	0	0	21	0		
	1730	..	1011.3	1008.7	..	26.9	24.4	23.3	28.6	81	..	3.8	..	8.0	0	0	23	0	0	0	0	0	0	0	5	0		
Long Island	0830	33	1014.1	1010.3	..	26.7	23.8	22.5	27.5	79	..	3.4	..	0.3	0	0	3	0	0	0	1	0	0	0	1	25	1	
	1730	..	1011.1	1007.4	..	27.2	23.5	21.7	26.2	73	..	4.3	..	0.4	0	0	4	0	0	0	0	0	0	0	4	24	0	
Port Blair	0530	79	1012.1	1003.1	..	22.9	22.0	21.6	26.0	92	..	2.7	..	3.8	0	0	16	3	6	0	0	0	0	4	2	1	12	0
	0830	..	1013.9	1005.0	+0.5	28.9	24.2	21.9	26.4	66	-5	2.7	-0.2	8.4	0	0	27	2	24	0	1	0	0	0	0	1	0	
	1130	..	1012.3	1003.5	..	30.8	24.6	21.5	26.2	58	..	3.7	..	10.9	0	1	27	2	22	4	0	0	0	0	0	0	0	
	1730	..	1011.2	1002.3	..	26.8	23.4	21.6	26.3	74	..	3.3	..	7.9	0	0	26	0	23	3	0	0	0	0	0	0	2	
	2330	..	1012.4	1003.4	..	24.7	22.7	21.7	26.2	83	..	2.9	..	7.1	0	1	17	1	11	5	0	0	0	0	0	1	10	
Car Nicobar.	0830	10	1013.0	1011.8	..	29.9	24.7	22.6	27.7	68	..	3.9	..	6.5	0	0	28	0	11	17	0	0	0	0	0	0	0	
	1730	..	1010.4	1009.2	..	27.9	24.4	22.7	27.5	73	..	3.5	..	3.6	0	0	25	0	14	11	0	0	0	0	0	3	0	
Nancowry	0830	26	1012.8	1009.9	..	29.1	25.9	24.9	31.2	73	..	5.9	..	0	0	0	0	0	0	0	0	0	0	0	0	28	0	
	1730	..	1009.7	1006.8	..	28.0	25.3	24.1	29.8	79	..	5.9	..	0	0	0	0	0	0	0	0	0	0	0	0	0	28	0
Kondul	0830	8	1012.8	1011.9	..	28.2	25.9	25.3	31.8	82	..	4.1	..	8.8	0	0	26	7	11	8	0	0	0	0	0	2	0	
	1730	..	1010.1	1009.2	..	28.2	25.9	24.9	31.8	83	..	4.1	..	10.9	0	0	27	6	15	6	0	0	0	0	0	1	0	
Assam (Including Mani-pur, Tripura) Pasighat	0830	157	1016.3	997.9	..	16.1	13.4	11.0	12.9	73	..	5.8	..	17.2	0	15	12	8	2	0	0	0	0	0	0	17	1	
	1730	..	1013.4	995.1	..	16.7	14.5	12.7	14.8	78	..	6.0	..	8.9	0	4	20	4	2	0	0	0	0	0	2	16	4	
Digboi	0830	..	..	..	..	15.0	13.9	12.9	15.0	88	..	5.7	..	3.9	0	0	28	6	4	2	1	6	2	5	2	0	
	1730	..	..	..	..	19.3	15.9	13.4	15.4	69	..	5.6	..	3.0	0	0	28	11	6	6	0	0	1	4	0		
Dibrugarh	0830	106	1016.1	1003.6	-0.3	16.7	14.8	13.2	15.3	81	-4	5.4	+1.0	3.3	0	0	23	2	7	8	3	2	1	0	0	5	0	
	1730	..	1012.7	1000.3	..	18.3	15.8	14.0	15.9	77	..	5.8	..	1.7	0	0	14	3	7	4	0	0	0	0	0	14	0	
Dibrugarh (Mohanbari Aerodrome)	0230	111	1013.5	1000.3	..	13.4	12.9	12.3	14.4	94	..	5.8	..	1.4	0	0	7	0	4	1	0	0	0	1	1	0	21	0
	0530	..	1014.2	1001.1	..	12.8	12.4	12.0	14.2	95	..	6.1	..	1.4	0	0	8	0	4	4	0	0	0	0	0	20	0	
	0830	..	1016.2	1003.2	..	16.2	14.5	13.2	15.2	83	..	5.7	..	4.0	0	0	20	0	12	7	0	1	0	0	0	8	0	
	1130	..	1014.6	1001.7	..	20.2	15.5	12.1	13.6	62	..	5.5	..	7.7	0	0	22	2	13	3	2	0	1	0	1	6	0	
	1730	..	1012.8	999.9	..	17.7	15.3	13.3	15.3	77	..	5.8	..	3.2	0	0	12	1	10	1	0	0	0	0	0	16	0	
	2330	..	1014.0	1000.9	..	14.3	13.5	12.8	14.9	92	..	5.9	..	1.5	0	0	5	1	4	0	0	0	0	0	0	23	0	
North Lakhimpur	0830	102	1015.7	1003.6	..	16.0	14.7	13.6	15.3	87	..	5.5	..	3.3	0	0	28	6	8	5	2	2	0	3	0	0		
	1130	..	1014.5	1002.7	..	20.0	16.1	13.1	15.2	67	..	4.5	..	7.1	0	1	26	6	4	9	6	0	1	0	1	1	0	
	1730	..	1012.1	1000.2	..	17.4	15.5	14.0	16.0	81	..	5.8	..	2.5	0	0	13	10	1	2	0	0	0	0	0	15	0	
Sibsagar	0830	97	1016.3	1004.9	+0.1	17.0	15.3	14.0	16.1	83	-5	6.4	+0.6	2.8	0	0	17	5	7	2	2	0	0	0	1	11	0	
	1730	..	1012.8	1001.6	..	18.9	16.3	14.4	16.5	75	..	5.1	..	4.4	0	0	22	11	8	1	0	0	0	1	6	0		
Jorhat	0530	90	1013.6	1002.9	..	13.1	12.9	12.8	14.7	98	..	5.6	..	1.4	0	0	5	2	2	1	0	0	0	0	0	23	0	
	0830	..	1015.6	1005.0	..	16.6	15.3	14.3	16.4	87	..	5.1	..	4.8	0	0	18	5	9	2	1	1	0	0	0	10	0	
	1130	..	1014.1	1003.8	..	21.1	17.0	14.1	16.0	66	..	4.6	..	8.4	0	0	26	12	11	1	0	1	0	1	2	0		
	1730	..	1011.8	1001.4	..	18.3	15.7	13.7	15.6	75	..	3.6	..	8.1	0	1	19	15	4	0	0	0	0	0	1	8	0	
Golaghat	0830	..	..	..	..	16.4	15.1	14.3	16.1	87	..	6.4	..	0	0	1	0	0	0	0	0	0	0	0	0	27	0
	1730	..	..	..	..	21.2	18.6	16.9	19.4	77	..	5.8	..	0	0	2	0	0	0	0	0	0	0	0	0	26	0
Gohpur	0830	..	..	..	..	16.3	14.7	13.4	15.3	84	..	3.6	..	3.5	0	0	28	0	14	6	7	0	0	0	1	0	
	1730	..	..	..	..	20.8	16.8	13.7	15.9	65	..	4.2	..	5.7	0	0	27	1	12	5	8	1	0	0	0	1	0
Tezpur	0830	79	1016.0	1006.7	+0.7	17.0	14.9	13.1	15.3	79	-2	3.0	0	6.2	0	0	25	0	15	10	0	0	0	0	0	3	0	
	1730	..	1011.6	1002.7	..	21.5	16.8	13.4	15.3	60	..	2.4	..	4.3	0	0	20	0	8	10	1	0	0	0	0	8	0	
Tezpur (P.B.O.)	0230	78	1013.3	1003.9	..	15.3	14.1	13.1	15.0	87	..	3.9	..	3.5	0	0	17	0	7	9	0	0</td						

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—FEBRUARY, 1958 (MAGHA 12—PHALGUNA 9, 1879 SAKA)

Division and station.	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres.	Mean pressure in millibars.			Mean temperature in °C.			Cloud amount (Oktas)			Wind speed (Km.p.h.)			No. of observations												
															Wind direction.												
			At mean sea level or height of nearest standard isobaric level.	At station level.	Departure from normal.	Dry bulb.	Wet bulb.	Dew point.	Vapour pressure in mb.	Relative humidity %.	Departure from normal.	Mean amount.	Departure from normal.	Mean wind speed, km. per hour.	62 or more.	20 to 61.	1 to 19.	N	NE	E	SE	S	SW	W	NW	Calm.	Variable.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Assam (Including Manipur, Tripura)—contd. Gauhati (Bhovjor Aerodrome)—contd.	0830	49	1015.2	1009.4	..	17.4	14.8	12.8	14.7	74	..	3.0	..	5.1	0	1	21	2	11	6	1	1	0	0	6	0	
	1130	"	1013.6	1007.9	..	22.9	16.6	11.9	13.7	51	..	2.5	..	8.3	0	0	28	5	14	3	0	0	0	2	4	0	
	1730	"	1011.2	1005.5	..	21.8	16.3	12.2	14.0	55	..	3.0	..	3.2	0	0	15	0	5	2	0	1	1	5	13	0	
	2330	"	1013.4	1007.6	..	15.0	13.8	12.6	14.9	86	..	2.8	..	3.4	0	0	17	0	7	4	1	2	3	0	0	11	
Rangia . . .	0830	..	..	..	..	17.7	15.3	13.4	15.3	76	..	2.3	..	10.6	0	1	25	4	4	9	5	4	0	0	0	2	0
	1730	..	..	..	..	21.8	17.7	14.8	16.8	65	..	1.5	..	2.5	0	0	11	3	3	1	1	2	0	0	0	1	15
Goalpara . . .	0830	38	1014.5	1010.1	..	15.8	14.2	12.7	14.9	82	..	3.0	..	3.0	0	0	20	0	11	4	3	0	1	0	1	8	0
	1730	"	1011.4	1006.9	..	24.0	18.5	14.7	16.8	58	..	1.5	..	2.5	0	0	17	2	5	1	0	0	2	2	5	11	0
Dhubri . . .	0830	35	1015.5	1011.4	-0.1	18.1	16.4	15.0	17.3	83	+7	1.6	-0.4	5.5	0	0	21	0	15	3	2	0	1	0	0	7	0
	1730	"	1011.8	1007.8	..	21.7	18.2	15.7	18.0	72	..	0.7	..	1.9	0	0	15	2	4	0	0	1	6	1	1	13	0
	0530	..	..	..	..	13.0	12.3	11.4	13.9	91	..	2.5	..	3.2	0	0	16	1	8	6	1	0	0	0	0	12	0
	0830	..	..	..	..	18.4	15.6	13.4	15.7	73	..	2.6	..	8.0	0	2	26	1	7	10	9	0	1	0	0	0	0
Dhubri (Rupsi Aerodrome)	1130	..	..	..	..	23.6	17.0	11.4	14.0	49	..	2.6	..	7.7	0	1	27	1	1	7	12	2	4	0	1	0	0
	1730	..	..	..	..	19.9	16.4	13.9	16.0	68	..	1.5	..	3.4	0	1	11	2	2	1	2	1	1	0	1	16	0
	0830	370	1015.8	973.1	..	17.1	16.3	15.6	17.9	92	..	2.9	..	2.1	0	0	17	1	1	9	2	2	1	1	0	11	0
	1730	"	1012.1	970.4	..	23.3	22.9	22.0	27.7	93	..	2.2	..	5.1	0	0	25	1	0	1	3	5	13	2	0	2	0
Agartala . . .	0230	16	1011.8	1009.9	..	15.5	14.3	13.2	15.4	87	..	2.1	..	4.6	0	1	17	0	2	5	3	7	1	0	0	10	0
	0530	"	1012.4	1010.5	..	15.0	14.2	13.4	15.6	91	..	3.2	..	3.5	0	0	20	1	2	2	9	4	1	1	0	8	0
	0830	"	1014.5	1012.7	..	20.3	17.5	14.7	16.9	72	..	3.5	..	5.2	0	1	22	2	2	1	6	8	2	2	0	5	0
	1130	"	1013.5	1011.6	..	26.0	18.1	11.2	14.5	44	..	3.8	..	8.6	0	3	23	3	0	1	3	6	6	6	1	2	0
Tura . . .	1730	"	1011.0	1009.2	..	23.2	17.2	12.1	14.8	53	..	2.9	..	4.9	0	1	19	1	2	1	3	2	2	6	3	8	0
	2330	"	1012.5	1010.6	..	17.1	15.4	13.9	16.2	82	..	1.7	..	3.5	0	0	16	1	8	8	5	0	0	0	0	6	0
Silchar . . .	0830	29	1016.1	1012.6	6	17.9	15.6	13.8	15.9	77	0	2.9	+0.6	2.4	0	0	22	1	8	8	5	0	0	0	0	0	18
	1730	"	1011.9	1008.5	..	23.0	17.9	13.8	16.4	57	..	2.3	..	1.1	0	0	10	1	3	0	1	1	3	0	1	1	18
Silchar (Kumbhigram Aerodrome)	0530	97	1012.6	1001.2	..	13.5	12.8	12.1	14.2	91	..	2.7	..	10.3	0	0	28	1	2	24	1	0	0	0	0	0	0
	0830	"	1014.7	1003.4	..	17.5	15.2	13.2	15.4	77	..	2.7	..	9.9	0	0	28	0	2	18	7	0	0	0	1	0	0
	1130	"	1013.0	1001.9	..	22.9	17.2	12.8	15.1	55	..	2.7	..	8.3	0	0	27	1	1	8	7	2	3	4	1	1	0
	1730	"	1010.7	999.6	..	20.7	16.5	13.2	15.3	63	..	2.9	..	4.3	0	0	21	1	8	3	1	0	2	3	7	0	
Imphal . . .	0530	801	1017.6	924.8	..	7.7	7.6	7.4	10.6	98	..	3.5	..	0.8	0	0	7	0	1	1	0	0	3	0	2	21	0
	0830	"	1017.5	926.5	..	13.6	11.3	9.3	11.8	76	..	3.5	..	2.1	0	0	18	0	1	2	2	11	0	1	1	10	0
	1130	"	1013.8	924.8	..	19.4	13.2	7.6	10.7	49	..	3.7	..	11.2	0	6	21	0	0	1	4	7	8	7	0	1	0
	1730	"	1012.4	923.1	..	17.8	13.3	9.3	12.1	60	..	3.6	..	8.1	0	1	25	0	0	0	0	1	9	14	2	2	0
Hailong . . .	2330	"	1016.2	924.6	..	11.3	10.4	9.5	11.8	89	..	2.9	..	1.7	0	0	9	3	0	0	0	2	2	1	1	19	0
	0830	682	1015.2	937.8	..	16.2	12.7	9.8	12.1	68	..	2.5	..	0.0	0	0	28	0	0	0	1	12	15	0	0	0	0
Lumding . . .	1730	"	1011.8	935.1	..	17.4	13.2	9.5	12.4	61	..	3.3	..	0.0	0	0	28	0	3	0	0	11	13	0	1	0	0
	0830	149	1015.9	998.3	..	15.3	13.6	12.4	14.3	82	-5	3.7	..	2.5	0	0	12	0	3	6	2	1	0	0	0	16	0
Sub-Himalayan West Bengal Cooch Behar (C.W.O.) . . .	1730	"	1010.9	993.9	..	23.3	17.0	12.1	14.2	51	..	4.5	..	3.9	0	0	14	1	1	4	3	3	1	0	1	14	0
	0830	43	1015.2	1010.0	..	17.8	15.0	12.7	14.9	73	..	2.6	..	11.2	0	2	24	0	8	15	1	1	0	0	2	0	0
Jalpaiguri . . .	1130	"	1013.9	1008.9	..	23.2	16.5	11.0	13.5	48	..	2.5	..	11.1	0	1	27	0	4	16	5	0	0	1	3	0	18
	1730	"	1011.1	1006.1	..	21.5	16.7	12.6	15.3	58	..	2.1	..	1.6	0	0	10	0	4	2	0	0	1	3	0	18	
	0830	83	1015.3	1005.4	-0.1	15.5	13.6	11.8	13.8	80	0	1.3	-0.4	4.1	0	0	25	10	6	6	1	0	0	0	2	3	0
	1730	"	1011.0	1001.5	..	23.9	16.6	10.6	13.2	44	..	0.6	..	4.9	0	0	26	1	4	4	4	2	6	4	1	2	0

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—FEBRUARY, 1958 (MAGHA 12—PHALGUNA 9, 1879 SAKA)

Division and station.	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres.	Mean pressure in millibars		Mean temperature in °C.			Vapour pressure in mbs.		Cloud amount (Octas).		Wind speed, (K.m.p.h.)		No. of observations.															
			A mean sea level or height in g.p.m. of nearest stand- ard isobetic level.	At station level.	Dry bulb.	Wet bulb.	Dew point.	Relative humidity %.	Departure from normal.	Mean amount.	Departure from normal.	Mean wind speed, K.m. per hour.	62 or more.	20 to 61.	1 to 19.	N	NE	E	SE	S	SW	W	NW	Calm.	Variable.				
I	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28		
Gangetic West Bengal <i>Contd.</i> Calcutta—Contd.	1730	6	1010.8	1010.1	..	26.6	19.2	13.7	16.0	47	..	2.2	..	3.7	0	1	18	1	0	0	1	2	9	2	4	9	0		
Barrackpore	0530	7	1012.3	1011.5	..	16.8	16.1	15.4	17.5	92	..	1.7	..	2.6	0	0	10	2	0	1	0	2	4	0	1	18	0		
	0830	"	1014.7	1013.9	..	21.6	18.2	15.8	18.3	72	..	2.3	..	4.7	0	0	17	1	2	3	0	0	0	3	5	3	11	0	
	1130	"	1013.7	1012.9	..	26.8	19.1	13.0	15.7	47	..	2.3	..	10.3	0	1	24	3	0	0	0	1	2	6	8	6	3	0	
	1730	"	1010.8	1010.0	..	25.3	18.8	13.9	16.7	51	..	2.0	..	4.4	0	0	16	0	0	0	1	2	6	2	5	12	0		
	2330	"	1012.7	1011.9	..	18.5	17.1	15.9	18.4	85	..	1.4	..	3.8	0	0	14	1	0	1	1	4	6	1	0	14	0		
Saugo. Island	0 30	3	1013.8	1013.5	-1.1	23.6	20.8	19.0	22.4	76	-2	2.3	-0.3	..	0	6	20	7	5	0	1	6	4	0	3	2	0		
	1730	"	1010.9	1010.6	..	25.0	22.2	20.6	24.5	78	..	2.9	..	..	0	6	22	1	2	0	4	14	7	0	0	0	0
Saudheads	0530	10	1012.5	1011.4	..	24.2	21.3	19.5	23.2	76	..	2.3	..	11.8	0	6	17	3	1	0	1	1	12	4	1	5	0		
	0830	"	1014.6	1013.5	-0.6	25.1	21.6	19.6	22.7	72	+2	2.6	+0.8	11.4	0	3	23	2	3	0	3	0	10	4	4	2	0		
	1130	"	1014.1	1013.0	..	26.0	21.7	19.3	23.7	67	..	2.7	..	10.4	0	4	18	6	3	0	0	2	6	3	2	6	0		
	1730	"	1011.7	1011.6	..	26.0	21.9	19.4	23.7	68	..	2.7	..	10.7	0	5	22	1	1	1	4	7	11	0	0	3	0		
	2330	"	1012.7	1011.6	..	24.6	21.4	19.6	23.3	74	..	0.4	..	12.1	0	5	19	0	0	1	4	6	12	1	0	4	0		
Contai	0830	11	1014.4	1013.2	..	23.6	19.5	16.4	19.2	66	..	2.0	..	5.4	0	0	23	9	2	0	1	2	7	1	1	5	0		
	1730	"	1011.0	1009.8	..	24.8	20.6	17.8	21.0	68	..	2.3	..	7.9	0	0	25	3	1	1	5	15	0	0	0	3	0		
Midnapore	0830	45	1014.8	1009.6	-0.3	22.8	17.3	12.7	15.3	57	-7	1.4	-0.6	3.6	0	1	18	6	6	1	0	2	3	0	1	9	0		
	1730	"	1010.6	1005.4	..	27.6	18.3	10.2	13.0	39	..	1.5	..	4.9	0	0	26	2	7	3	3	4	4	0	3	2	0		
Purulia	0830	255	1015.2	985.7	..	19.0	14.0	8.8	12.0	53	..	1.9	..	2.4	0	0	21	1	0	0	0	2	3	8	7	7	0		
	1730	"	1010.6	981.7	..	26.6	16.9	7.9	12.0	35	..	2.2	..	2.6	0	0	18	0	0	1	0	4	6	1	6	10	0		
Purdwan	0830	32	1015.7	1011.9	+0.4	21.4	16.9	13.9	15.8	65	-2	2.5	+0.2	1.0	0	0	8	1	1	0	0	1	2	2	1	20	0		
	1730	"	1011.2	1007.5	..	25.7	18.7	13.3	16.0	49	..	2.4	..	0.2	0	0	2	0	0	0	0	0	2	0	0	26	0		
Krishnagar	0830	15	1014.7	1013.0	-0.6	21.2	17.2	14.2	17.2	66	-7	2.1	-0.1	2.1	0	0	18	3	0	3	1	4	2	5	0	10	0		
	1730	"	1011.2	1009.5	..	26.1	19.3	14.9	17.2	53	..	1.5	..	0.5	0	0	5	0	0	0	0	3	1	1	0	23	0		
Asansol	0230	126	1011.9	997.1	..	17.6	13.9	10.1	13.1	64	..	1.2	..	1.9	0	0	9	0	2	0	1	1	0	4	1	19	0		
	0530	"	1012.8	997.8	..	16.1	13.3	10.3	13.1	71	..	2.1	..	1.3	0	0	8	1	0	1	1	1	12	4	7	0			
	0830	"	1014.5	999.8	-0.6	20.1	15.3	10.9	13.6	59	-4	2.2	+0.1	3.9	0	0	21	0	1	1	1	3	11	8	0	0			
	1130	"	1013.3	998.9	..	26.0	16.7	8.0	11.8	36	..	1.7	..	8.4	0	0	28	0	1	3	1	1	1	3	11	8	0		
	1730	"	1010.3	996.2	..	26.4	17.1	9.3	11.7	37	..	2.3	..	4.7	0	0	19	1	2	1	1	0	1	7	6	9	0		
	2330	"	1012.5	997.9	..	19.2	14.9	10.4	13.5	59	..	1.7	..	2.4	0	0	14	1	1	0	2	1	0	6	3	14	0		
	0830	77	1014.7	1005.7	..	20.1	14.7	9.7	12.6	53	..	2.3	..	7.6	0	0	28	3	1	2	2	2	5	7	6	0			
	1730	"	1011.2	1002.4	..	26.4	16.3	7.1	10.6	32	..	2.0	..	7.9	0	2	21	1	2	1	1	3	3	7	5	5	0		
Berhampore	0830	19	1014.4	1012.1	-1.0	18.6	15.5	13.0	15.3	72	+2	1.9	-0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	28	0	
	1730	"	1010.5	1008.4	..	25.8	18.1	12.0	14.4	45	..	1.7	..	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	0
Orissa	Baripada	0830	54	1015.2	1008.9	..	21.3	17.1	13.6	16.2	63	..	2.1	..	2.9	0	0	21	10	1	0	0	0	3	2	5	7	0	
	Balasore	0830	20	1014.5	1012.2	-0.7	23.3	18.5	14.9	17.4	61	-8	2.8	+0.8	5.9	0	1	23	10	4	0	0	3	4	0	3	4	0	
	Chandbali	0830	6	1014.7	1014.0	-0.2	24.0	20.9	19.0	22.3	73	-4	3.0	+0.8	6.3	0	1	27	0	2	0	3	7	4	8	0	0		
	Cuttack	0830	27	1014.0	1010.9	-1.2	22.7	20.1	18.4	21.7	77	+1	2.3	0	1.0	0	0	5	0	1	2	0	10	2	0	0	13	0	
	Bhubaneswar	0230	46	1012.0	1006.5	..	21.2	19.7	18.9	22.0	87	..	2.9	..	2.9	0	0	24	3	4	0	1	6	7	2	2	3	0	
		0530	"	1012.4	1006.9	..	20.4	19.0	18.0	21.7	86	..	2.2	..	5.8	0	0	23	2	8	1	1	5	6	1	2	2	0	
		0830	"	1014.4	1009.1	..	24.1	20.4	17.9	21.2	70	..	2.8	..	9.9	0	3	23	2	9	1	0	5	6	1	2	2	0	
		1130	"	1013.5	1008.3	..	28.7	21.1	15.9	19.1	48	..	3.1	..	14.2	0	6	21	4	4	1	1	7	9	1	0	1	0	
		1730	"	1010.9	1005.7	..	27.0	21.2	17.5	20.4	59	..	3.5	..	18.5	0	10	18	3	0	2	3	17	3	0	0	0	0	
		2330	"	1013.0	1007.6	..	22.3	20.5	19.5	22.4	85	..	1.7	..	6.9	0	1	24	0	4	2	2	8	9	0	0	3	0	
Turi	0830	6	1014.6	1013.9	-																								

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—FEBRUARY, 1958 (MAGHA 12—PHALGUNA 9, 1879 SAKA)

Division and station.	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres.	Mean pressure in millibars.			Mean temperature in °C.			Cloud amount (Octas).			Wind speed (Km. p.h.)			No. of observations.															
			At mean sea level or height in a.p.m. nearest standard isobaric level.			At station level.			Departure from normal.			Relative humidity %.			Departure from normal.			Mean wind speed, Km. per hour.			Wind direction.									
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	Calm.	Variable.
Orissa—(contd). Bolangir. . .	0830	24.1	18.3	13.8	16.3	60	..	1.6	..	5.9	0	0	26	4	6	0	8	0	5	0	3	2	0	0	0	0
	1730	29.1	19.3	11.9	14.6	39	..	2.6	..	5.7	0	1	23	5	6	0	0	0	7	0	6	4	0	0	0	0
Angul. . .	0830	139	1014.8	998.8	0	21.0	17.3	14.3	17.0	68	+1	1.9	-0.5	1.7	0	0	13	1	2	0	1	1	3	2	3	15	0	0	0	
	1730	..	1010.8	995.3	..	29.3	18.9	10.1	13.7	35	..	3.1	..	4.7	0	0	26	5	9	0	4	2	1	0	5	2	0	0	0	0
Keonjhar . . .	0830	463	1011.8	959.5	..	20.3	15.4	10.8	13.6	58	..	1.9	..	4.4	0	0	23	6	5	1	3	1	1	2	4	5	0	0	0	0
	1730	..	1007.3	956.2	..	26.2	16.9	9.1	11.4	37	..	2.6	..	5.8	0	0	28	3	1	2	1	0	8	7	6	0	0	0	0	0
Sambalpur . . .	0830	148	1014.6	997.8	-20	21.6	17.2	13.7	16.7	63	-2	1.4	-0.3	1.6	0	0	11	3	5	2	1	0	0	0	0	0	17	0	0	
	1730	..	1010.2	993.7	..	28.9	19.8	13.5	15.6	41	..	1.6	..	1.1	0	0	6	2	1	1	0	0	0	0	0	2	22	0	0	
Jharsuguda . . .	0230	230	1011.9	985.2	..	17.3	14.3	11.4	13.8	70	..	1.4	..	3.4	0	0	13	1	7	1	0	0	0	0	1	3	15	0	0	
	0530	..	1012.6	985.8	..	15.7	13.3	11.0	13.2	76	..	1.1	..	4.0	0	0	20	2	13	1	0	0	0	0	1	3	8	0	0	
	0830	..	1014.6	988.1	..	19.9	15.1	10.8	13.4	58	..	2.0	..	5.7	0	0	23	2	17	0	0	0	1	0	0	3	5	0	0	
	1130	..	1013.4	987.5	..	26.3	17.0	8.8	11.6	38	..	1.5	..	6.8	0	1	24	2	9	1	0	2	0	6	4	3	1	0		
	1730	..	1010.1	984.3	..	26.7	17.4	9.7	12.7	38	..	2.0	..	5.2	0	0	20	0	3	0	1	7	1	6	2	8	0	0		
	2330	..	1012.3	985.8	..	19.4	15.3	11.6	14.0	63	..	1.4	..	4.1	0	0	21	2	8	1	1	0	0	1	2	7	7	0		
	0830	129	1014.9	999.9	-0.3	18.4	15.5	13.0	15.0	72	0	1.5	-0.8	4.0	0	0	24	0	1	0	1	0	14	7	4	0	0			
	1730	..	1010.3	995.8	..	26.9	18.1	10.7	13.5	40	..	1.6	..	4.8	0	0	20	0	0	0	2	0	2	12	4	8	0	0		
Jamshedpur (P.B.O.) . .	0530	145	1013.0	995.9	..	16.0	14.0	12.1	14.5	80	..	2.1	..	4.1	0	0	20	1	0	0	0	0	0	2	7	10	8	0		
	0830	..	1014.9	998.0	..	18.6	14.9	11.6	14.8	66	..	1.9	..	5.5	0	0	27	2	0	0	1	1	4	8	11	1	0			
Chaibasa . . .	0830	226	1014.7	988.6	-0.4	19.4	16.9	14.8	17.3	75	+4	1.9	-0.2	2.1	0	0	17	0	3	0	0	0	0	14	0	0	11	0		
	1730	..	1010.3	984.7	..	26.1	20.3	16.5	19.1	58	..	2.3	..	1.2	0	0	9	0	0	0	0	0	0	9	0	0	19	0		
Ranchi . . .	0830	655	1014.3	940.4	-0.3	18.4	13.7	8.7	12.2	58	+4	1.0	-1.1	1.2	0	0	10	0	5	0	0	0	1	1	2	1	18	0		
	1730	..	1010.8	939.0	..	22.9	13.7	7.9	9.0	40	..	2.1	..	0.2	0	0	2	0	0	0	0	0	0	1	1	0	26	0		
Ranchi (C. W. O.) . .	0530	652	1013.2	938.7	..	14.2	11.2	8.3	11.1	69	..	1.9	..	2.6	0	0	12	3	0	0	0	0	1	2	4	2	16	0		
	0830	..	1014.5	941.0	..	17.9	13.1	8.5	10.8	57	..	1.7	..	2.9	0	0	15	3	0	0	0	0	3	5	2	2	13	0		
Daltonganj . . .	0830	221	1014.9	989.3	-0.7	18.5	14.6	11.2	13.5	64	-9	1.2	-0.4	1.6	0	0	10	3	0	1	0	1	2	2	1	18	0			
	1730	..	1010.5	985.6	..	25.4	17.1	10.2	12.8	41	..	2.0	..	2.7	0	0	17	1	0	0	1	0	3	9	3	11	0			
Hazaribagh . . .	0830	611	1014.6	945.3	-0.1	17.7	12.3	7.0	10.7	52	-8	1.7	-0.5	5.1	0	0	26	0	1	0	3	5	7	3	2	0				
	1730	..	1010.2	942.4	..	22.9	14.1	5.8	9.6	36	..	1.9	..	5.5	0	0	26	3	0	2	1	1	0	1	18	2	0			
Dhanbad . . .	0830	257	1014.5	984.9	..	20.3	14.0	7.5	10.8	47	..	2.5	..	4.9	0	0	27	5	1	1	0	1	4	11	3	0	1			
	1730	..	1010.3	981.0	..	25.8	15.7	5.4	10.5	31	..	2.4	..	4.2	0	0	23	3	0	2	0	3	2	9	4	5	0			
Bihar Purnea . . .	0830	38	1014.8	1010.3	-0.5	17.7	13.6	9.7	12.5	61	-15	1.6	-0.1	5.4	0	0	25	0	6	5	1	1	3	9	0	3	0			
	1730	..	1011.0	1006.7	..	23.4	16.0	9.4	12.6	43	..	1.0	..	1.8	0	0	13	0	1	1	0	0	2	7	2	15	0			
Forbesganj . . .	0830	61	1014.5	1007.4	..	16.0	13.4	11.0	13.5	73	..	1.5	..	6.1	0	0	25	0	1	1	0	1	17	0	0	7	0			
	1730	..	1010.5	1003.6	..	24.5	17.1	11.5	13.4	46	..	1.7	..	3.5	0	0	22	1	0	6	0	0	1	13	1	6	0			
Darbhanga * . .	0830	49	1014.3	1008.5	-0.8	16.4	13.4	10.8	12.9	71	-2	1.0	-0.7	1.5	0	0	11	0	1	6	2	0	1	6	0	12	0			
	1730	..	1010.8	1005.2	..	24.3	16.9	10.9	13.1	44	..	0.3	..	0.8	0	0	7	0	0	2	1	0	1	5	0	19	0			
M. Pihari . . .	0830	66																												
	1730	..																												
Patna . . .	0830	53	1014.2	1008.0	-1.2	18.5	13.5	8.4	11.5	54	-9	1.6	-0.3	7.7	0	0	27	0	5	1	1	6	8	5	1	1	0			
	1730	..	1010.8	1004.3	..	24.4	16.0	8.5	11.5	38	..	1.7	..	5.4	0	0	22	0	2	2	0	0	1	14	3	6	0			
Patna (Aerodrome) . .	0530	60	1011.9	1004.8	..	13.0	11.1	9.0																						

TABLE III.—SUMMARY OF OBSERVATIONS AT FIXED HOURS—FEBRUARY, 1958 (MAGHA 12—PHALGUNA 9, 1879 SAKA)

Division and station.		Hour of observation 1.S.T.	Height of barometer cistern above mean sea level in metres.	Mean pressure in millibars.			Mean temperature in °C.			Cloud amount (Oktas).			Wind speed (K.m.p.h.)	No. of observations.																
				At mean sea level or height in g.p.m. of nearest standard barometric level.	At station level.	Departure from normal.	Dry bulb.	Wet bulb.	Dew point.	Vapour pressure in mbs.	Relative humidity %.	Departure from normal.	Mean amount.	Departure from normal.	Mean wind speed, Km. per hour.	N	NE	E	SE	S	SW	W	NW	Calm.	Variable.					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28			
Bihar (contd.)																														
Jamui	.	0830	82	1014.4	1005.0	..	18.4	13.8	9.7	11.9	58	..	1.4	..	3.7	0	0	23	2	0	10	3	0	0	0	8	5	0		
		1730	..	1014.2	1001.5	..	25.7	17.0	9.5	12.5	39	..	1.4	..	6.0	0	0	25	0	0	2	1	0	0	1	21	3	0		
Dumka	.	0830	149	1014.7	997.4	-0.6	21.3	14.6	8.1	11.3	45	-14	1.6	0	3.6	0	0	21	1	2	2	1	1	0	1	7	6	0		
Bhagaipur	.	1730	..	1010.6	993.7	..	25.5	16.6	9.5	12.4	38	..	1.8	..	4.7	0	0	27	2	2	2	1	0	3	10	7	1	0		
		0530	49	1012.5	1006.8	..	15.1	12.2	9.2	12.1	70	..	1.6	..	5.4	0	1	15	0	1	3	1	0	3	7	1	12	0		
		0830	..	1014.7	1009.0	..	18.5	14.0	9.7	12.5	59	..	1.4	..	4.6	0	0	23	0	3	5	1	0	5	8	1	5	0		
		1130	..	1014.2	1008.3	..	23.8	16.2	9.4	12.5	42	..	0.9	..	7.3	0	2	20	0	4	3	0	0	0	2	8	5	6	0	
		1730	..	1011.0	1005.5	..	24.0	16.7	10.6	13.2	43	..	1.5	..	5.4	0	0	23	0	1	3	1	0	1	12	5	5	0		
		2330	..	1013.0	1007.3	..	18.4	14.5	11.1	13.4	63	..	0.7	..	4.6	0	1	16	0	2	4	1	0	0	10	0	11	0		
Sabour	.	0830	37	1014.4	1009.9	-0.6	18.0	14.2	10.5	12.9	63	-16	1.9	-0.5	4.8	0	0	26	1	4	0	3	0	13	3	2	2	0		
Uttar Pradesh (East)																														
Gonda	.	0830	110	1014.2	1001.2	..	15.4	11.3	8.0	11.1	62	13	1.1	-11	1.6	0	0	11	1	0	2	0	0	0	0	6	2	17	0	
		1730	..	1010.6	1006.3	..	24.6	17.4	11.3	14.0	46	..	1.7	..	6.9	0	1	24	0	1	2	1	0	1	4	16	3	0		
Nautanwa	.	0830	99	1014.4	1002.6	..	14.6	12.4	10.1	12.5	75	..	2.1	..	3.9	0	0	23	1	1	5	5	4	3	4	0	5	0		
		1730	..	1011.2	999.8	..	23.4	15.7	9.2	11.4	43	..	1.5	..	4.2	0	0	19	0	0	1	3	2	7	6	0	9	0		
Gorakhpur	.	0830	77	1013.7	1004.9	-0.8	15.7	12.7	9.7	12.5	65	-6	2.0	+0.5	1.5	0	0	15	2	0	6	0	1	1	5	0	13	0		
		1730	..	1011.8	998.5	..	24.0	16.1	10.7	12.0	42	..	1.5	..	1.8	0	0	15	3	0	1	0	1	1	9	0	13	0		
Gorakhpur (P.B.O.)	.	0230	78	1011.7	1002.5	..	15.2	12.2	9.0	11.5	69	..	0.7	..	6.5	0	1	22	8	2	1	0	3	2	4	3	5	0		
		0530	..	1011.7	1002.4	..	13.9	11.6	9.1	11.9	74	..	1.2	..	6.0	0	0	21	2	2	0	1	7	2	5	2	7	0		
		1130	..	1013.7	1004.6	..	23.4	15.7	8.7	11.9	41	..	1.0	..	8.0	0	1	27	0	3	5	3	5	3	8	1	0	0		
		2330	..	1012.4	1003.2	..	17.0	13.5	10.0	13.2	66	..	0.7	..	5.2	0	0	19	5	2	0	0	1	2	5	4	9	0		
Azamgarh	.	0830	78	1013.8	1004.5	..	15.4	12.6	9.7	12.5	69	..	1.3	..	0	0	22	0	0	5	0	1	0	16	0	6	0	0		
		1730	..	1010.6	1002.0	..	23.7	17.6	13.0	14.7	53	..	0.8	..	..	0	0	3	0	0	0	0	0	0	3	0	25	0
Ballia	.	0830	64	1014.4	1006.8	..	16.3	12.4	8.7	11.1	61	..	2.1	..	3.7	0	0	24	0	7	0	2	5	10	0	0	4	0		
		1730	..	1010.8	1003.6	..	24.9	16.1	8.7	11.1	36	..	2.3	..	4.9	0	0	27	1	7	0	2	0	15	10	1	1	0		
Varanasi (Banaras)*	.	0830	76	1014.2	1005.3	-1.1	17.8	12.7	7.5	10.7	53	-16	1.0	-0.9	5.7	0	0	25	0	2	3	0	4	10	5	1	3	0		
		1730	..	1010.7	1002.3	..	25.6	16.6	8.7	11.8	36	..	1.8	..	5.9	0	0	28	4	3	2	0	1	6	9	3	0	0		
Varanasi (Banaras) (Babatpur Aerodrome)	.	0530	85	1013.4	1003.2	..	11.9	9.8	7.4	10.5	75	..	0.6	..	5.0	0	0	22	0	4	1	2	4	6	4	1	6	0		
		0830	..	1015.3	1005.2	..	17.3	12.9	8.3	11.2	57	..	1.0	..	9.1	0	2	25	1	1	3	2	1	13	5	1	1	0		
		1130	..	1014.8	1004.8	..	24.7	15.8	7.4	10.5	34	..	1.1	..	13.8	0	5	23	0	2	4	2	2	8	8	2	0	0		
		1730	..	1011.9	1002.1	..	24.8	15.9	7.7	11.1	36	..	1.6	..	8.4	0	0	28	2	6	0	0	1	1	11	7	0	0		
		2330	..	1013.8	1003.7	..	15.5	11.8	8.9	11.1	63	..	0.9	..	5.8	0	0	25	3	3	1	1	2	6	6	3	3	0		
Allahabad (Bamrauli)	.	0230	..	1012.5	1000.9	..	14.3	10.6	6.7	10.1	61	..	0.2	..	3.9	0	0	22	3	1	4	1	1	3	7	2	6	0		
		0530	..	1012.7	1001.0	..	12.8	9.5	5.5	9.2	64	..	0.7	..	4.0	0	0	21	1	2	2	1	2	6	7	0	7	0		
		0830	98	1014.7	1003.1	-0.8	17.1	12.0	6.5	10.2	50	-16	1.0	-1.2	6.0	0	0	25	1	3	2	2	2	6	9	0	3	0		
		1130	..	1014.1	1002.9	..	25.2	15.2	5.4	9.0	30	..	1.0	..	12.0	0	2	26	1	0	6	4	2	0	10	5	0	0		
		1730	..	1011.0	999.9	..	25.4	15.8	6.9	10.2	32	..	1.5	..	7.0	0	0	27	4	5	2	0	0	0	9	7	1	0		
		2330	..	1013.1	1001.6	..	16.7	12.1	7.3	10.2	55	..	0.5	..	3.7	0	0	21	2	4	3	1	2	0	4	5	7	0		
Banda	.	0830	121	1014.6	1000.4	..	17.3	12.0	6.8	9.7	49	..	0.8	..	0.1	0	0	1	0	0	4	0	0	0	0	27	0			
		1730	..	1010.7	996.9	..	26.4	16.7	7.8	9.2	32	..	0.9	..	0.8	0	0	19	0	4	3	1	0	0	0	3	0	1	24	0
Fatehpur	.	0830	114	1014.6	1001.1	..	15.3	11.3	7.0	10.4	58	-13	1.7	-0.1	2.7	0	0	19	0	4	3	1	0	0	2	6	3	9	0	
		1730	..	1011.1	998.1	..	25.3	15.7	6.9	9.8	34	..	1.5	..	3.6	0	0	17	1	1	2	0	0	0	4	9	11	0		
Kanpur	.	0830	126	1014.9	1000.0	-0.4	16.2	11.6	6.7	10.2	54	-14	1.4	+0.1	11.0	0	3	24	4	2	5	0	1	6	9	0	1	0		
		1730	..	1011.4	997.6	..	25.2	15.6	6.5	9.5	31	..	2.2	..	11.4	0	3	25	5	1	3	0	0	0	12	7	0	0		
Lucknow	.	0830	111	..	..	..	14.9	11.1	7.0	10.1	60	-8	0.8	-1.2	..	0	0	28	0	0	9	0	0	0	19	0	0	0
		1730	23.9	16.1	9.3	12.0	41	..	1.5	0	0	28	0	0	6	0	0	0	1	18	3	0	0	
Lucknow (Amausi Aerodrome)	.	0230	128	1012.5	997.5	..	12.5	9																						

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—FEBRUARY, 1958 (MAGHA 12—PHALGUNA 9, 1879 SAKA)

Division and station.	Hour of observation I.S.T.	Mean pressure in millibars.		Mean temperature in °C.				Cloud amount (Octas)		Wind speed, Km.p.h.		No. of observations																	
		At mean sea level or height in g.p.m. of nearest standard isobaric level*		At station level				Departure from normal		Relative humidity %		Departure from normal		Mean amount		Departure from normal		Mean wind speed, Km. per hour		Wind direction.									
		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28		
1	2																												
Uttar Pradesh (West)	0830	141	1016.0	999.4	..	18.1	12.1	6.1	8.6	45	..	0.4	..	5.5	0	0	27	0	2	1	1	2	8	2	11	1	0		
	1730	"	1012.0	996.0	..	25.3	15.8	6.2	10.2	28	..	0.7	..	4.6	0	0	27	5	5	1	0	0	0	0	16	1	0		
Jhansi	0830	251	1015.1	985.6	-1.1	15.2	10.0	4.3	7.8	50	-4	0.8	-0.6	1.3	0	0	10	1	4	0	0	0	0	1	3	18	0		
	1730	"	1010.6	982.4	..	26.7	16.1	4.3	9.8	24	..	0.6	..	3.2	0	0	19	1	3	2	0	0	0	0	13	9	0		
Agra	0830	169	1015.4	995.5	-0.3	15.2	10.8	5.4	9.2	54	-9	1.0	-1.1	1.0	0	0	9	3	1	0	1	0	1	2	1	19	0		
	1730	"	1011.7	992.6	..	25.3	15.0	3.7	9.1	27	..	1.1	..	2.8	0	0	20	6	3	1	0	0	0	1	1	8	8	0	
Agra (Aerodrome)	(R)	0530	168																										
	(R)	0830	"																										
	(R)	1130	"																										
	(R)	1730	"																										
	(R)	2330	"																										
Mainpuri	0830	157	1015.6	997.0	+0.2	13.8	10.5	6.9	10.1	63	-3	0.9	-1.3	1.3	0	0	13	0	1	0	0	0	0	0	11	1	15	0	
	1730	"	1011.5	993.7	..	24.1	15.3	7.8	9.9	34	..	1.0	..	1.5	0	0	14	0	0	0	0	0	0	0	13	1	14	0	
Aligarh	0830	187	1015.1	992.8	..	12.5	9.5	5.8	9.4	65	-3	1.9	-0.1	2.3	0	0	20	2	1	2	0	0	0	0	14	1	8	0	
	1730	"	1012.0	990.5	..	23.5	14.3	4.6	8.8	31	..	2.4	..	4.1	0	0	22	11	0	2	0	0	0	0	7	2	6	0	
Bareilly	0830	173	1014.1	993.7	-0.9	14.6	10.9	6.8	10.1	61	-14	2.7	+0.4	4.4	0	0	23	1	1	4	0	2	1	8	6	5	0		
	1730	"	1010.9	991.2	..	23.2	14.0	3.9	8.8	31	..	2.4	..	3.2	0	0	16	0	0	3	0	0	0	0	11	2	12	0	
Bareilly (P. B. O.)	0230	172	1012.7	992.4	..	14.0	11.0	8.3	10.5	69	..	0.9	..	6.6	0	0	23	1	2	3	0	0	0	0	4	14	2	0	
	0530	"	1012.5	992.4	..	12.5	10.1	7.9	10.5	74	..	1.4	..	9.9	0	0	26	1	1	4	2	0	0	0	3	16	1	0	
Meerut	1130	"	1014.3	994.2	..	21.1	14.6	9.5	11.1	49	..	0.9	..	6.2	0	0	22	1	1	3	1	0	0	0	7	9	6	0	
	2330	"	1013.3	993.5	..	16.1	12.3	9.1	11.1	64	..	0.9	..	6.2	0	0	22	0	0	10	1	0	0	0	11	0	6	0	
Najibabad	0830	222	1015.2	989.0	-0.3	14.7	10.6	6.7	10.1	57	-13	1.5	-0.8	3.5	0	0	22	0	2	3	0	0	0	0	10	16	0		
	1730	"	1014.8	984.8	..	10.0	8.6	6.7	10.1	81	..	2.3	..	1.3	0	0	12	0	1	1	2	0	0	0	0	14	10	0	
Roorkee	0830	274	1015.1	982.2	-0.3	11.3	9.3	7.0	10.1	76	-3	3.7	+1.1	0.9	0	0	19	0	1	0	0	0	0	0	0	16	10	0	
	1730	"	1011.9	980.6	..	21.1	12.9	5.6	8.1	35	..	1.3	..	1.3	0	0	11	6	4	0	0	1	0	0	0	17	0	0	
Dehra Dun	0530	682	1013.8	934.7	..	9.6	7.2	4.7	8.2	71	..	1.3	..	1.3	0	0	10	2	3	0	0	0	0	1	2	18	0		
	0830	"	1015.0	936.3	-0.5	11.6	8.6	5.3	8.7	67	-6	2.3	-1.0	1.2	0	0	10	0	1	0	3	5	6	2	2	9	0		
	1130	"	1013.7	936.8	..	13.4	11.6	5.3	8.3	43	..	2.4	..	2.0	0	0	19	0	1	0	0	5	2	7	2	10	0		
	1730	"	1011.4	934.9	..	18.7	12.1	5.6	8.7	43	..	1.7	..	2.1	0	0	15	1	1	0	0	0	0	0	0	11	0		
	2330	"	1014.7	936.1	..	12.1	8.9	5.6	9.2	65	..	0.9	..	2.0	0	0	17	8	8	0	0	1	0	0	12	8	0		
Punjab (India) (Including Delhi)	0230	216	1013.9	988.3	..	13.3	9.9	5.7	9.6	62	..	1.7	..	6.5	0	1	15	3	0	0	3	0	1	1	12	8	0		
	0530	"	1013.7	987.8	-0.4	11.3	8.6	5.3	8.8	67	..	1.4	..	5.7	0	1	20	1	1	2	0	0	2	7	8	7	0		
	0830	"	1015.3	989.6	..	12.7	9.2	4.9	8.7	60	-3	2.6	+2	10.4	0	1	24	0	2	1	2	0	4	10	6	3	0		
	1130	"	1015.2	990.2	..	21.9	13.7	5.4	9.2	35	..	2.4	..	14.9	0	6	22	1	1	3	4	0	0	6	13	0			
	1730	"	1012.1	987.4	..	23.3	14.1	4.7	8.8	32	..	1.9	..	1.1	0	2	25	3	3	1	0	1	0	1	2	9	10	0	
Hissar	2330	"	1014.4	988.9	..	15.0	11.0	5.8	10.0	58	..	1.2	..	8.1	0	1	17	4	0	1	1	1	0	0	0	3	13	0	
	0530	221	1014.4	987.9	..	9.6	7.2	4.2	8.0	70	..	1.6	..	2.3	0	0	15	4	0	3	0	0	0	0	0	0	10	0	
Karnal	0830	"	1015.8	989.3	-0.2	10.5	7.9	4.5	8.8	67	+2	2.0	-0.2	2.8	0	0	18	1	2	1	0	3	7	3	1	10	0		
	1730	"	1515.6	990.2	..	22.5	14.1	5.1	9.5	35	..	1.9	..	4.0	0	0	22	6	2	0	3	0	2	2	7	6	0		
Patiala	0830	251	1015.2	985.5	..	12.6	9.2	5.1	9.1	62	..	2.6	..	3.6	0	0	22	6	0	3	0	0	2	0	0	1	12	9	0
	1730	"	1012.8	984.0	-0.4	20.8	13.4	6.9	9.2	40	..	2.4	..	7.7	0	1	18	4	0	0	2	0	0	1	0	10	10	0	
Ambala	0830	272	1014.9	982.7	..	11.2	8.8	6.1	9.2	70	-3	2.0	-0.9	2.9	0	0	18	0	0	0	5	0	3	0	0	12	12	0	
	1730	"	1012.4	980.9	..	21.2	1																						

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—FEBRUARY, 1958 (MAGHA 12—PHALGUNA 9, 1879 SAKA)

Division and station.	Hour of observation I.S.T	Height of barometer cistern above mean sea level in metres.	Mean pressure in millibars.			Mean temperature in °C			Dew point.	Vapour pressure in mb.	Relative humidity %.	Departure from normal.	Cloud amount (Oktas).	Wind speed Km. p.h.	No. of observations.													
			At mean sea level or height in g.p.m. of nearest standard isobaric level.			At station level.									Wind direction.													
	2	3	4	5	6	7	8	9							1	17	18	19	20	21	22	23	24	25	26	27		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	1	17	18	19	20	21	22	23	24	25	26	27		
Punjab (India) Including Delhi —Contd Ludhiana . . .	0830	247	1015.5	986.3	-0.1	13.3	10.1	6.6	9.6	65	-11	1.6	-1.0	2.2	0	0	16	0	1	0	1	0	1	5	8	12		
	1730	"	1012.7	984.2	..	21.2	14.3	7.8	11.1	43	..	1.8	..	3.3	0	0	24	5	1	1	0	0	4	8	5	4		
Ferozepur . . .	0830	200	1015.7	991.7	..	10.6	8.3	5.4	9.2	72	..	1.1	..	1.2	0	0	8	2	3	0	1	0	0	0	1	20		
Amritsar . . .	1730	"	1012.9	989.9	..	22.1	9.9	4.9	9.7	35	..	1.5	..	1.8	0	0	17	3	3	0	0	0	0	0	0	11	11	
	0530	234	1014.4	986.1	..	6.5	5.5	3.8	8.2	82	..	1.4	..	4.1	0	0	18	3	4	2	1	0	1	3	4	10		
	0830	"	1016.0	987.8	..	8.6	6.9	4.6	8.5	79	..	2.0	..	4.1	0	0	21	5	0	5	2	0	1	4	4	7		
Pathankot . . .	1130	"	1015.8	988.7	..	19.2	12.6	4.7	9.4	41	..	2.2	..	8.2	0	1	26	5	1	3	1	2	0	5	10	1		
	1730	"	1013.0	986.1	..	21.0	17.2	2.4	8.1	33	..	2.1	..	9.3	0	1	25	0	2	1	1	2	3	8	9	2		
	0830	344	1015.8	975.1	..	11.1	8.7	6.0	9.2	71	..	2.7	..	1.3	0	0	25	0	4	12	8	1	0	0	0	3		
Pathankot (Aerodrome)	1730	"	1013.3	974.3	..	20.0	13.5	7.1	9.9	45	..	3.6	..	4.1	0	0	24	1	1	0	0	1	3	17	1	4		
	0830	312	1015.6	978.8	..	11.6	9.0	5.9	9.6	70	..	2.5	..	2.4	0	0	15	1	5	6	0	1	2	0	0	13		
Himachal Pradesh Bilaspur . . .	1130	"	1015.4	979.5	..	19.2	12.5	5.4	9.4	42	..	2.0	..	4.7	0	0	25	1	2	2	3	1	15	0	1	3		
	1730	"	1013.0	977.3	..	20.3	12.5	3.7	8.5	36	..	3.4	..	7.6	0	0	27	0	2	2	0	0	0	3	17	3		
	0830	493	1017.2	958.7	..	7.7	7.1	6.5	9.7	92	..	4.8	..	1.1	0	0	8	0	3	1	1	0	1	0	2	20		
Mandi . . .	1730	"	1011.4	955.7	..	20.7	14.1	8.7	10.5	47	..	3.6	..	6.3	0	0	24	1	2	0	0	6	7	0	8	4		
	0830	761	1017.3	928.8	..	7.9	6.8	5.5	9.0	87	..	3.7	..	0.3	0	0	3	1	1	0	0	0	0	1	0	25		
Jammu and Kashmir Srinagar . . .	1730	"	1011.1	926.2	..	17.7	11.5	5.5	9.3	46	..	3.7	..	3.3	0	0	20	0	1	0	5	3	2	3	6	8		
	0830	1587	1525.1	843.7	-0.1	1.9	0.9	0.1	5.7	82	-6	4.3	-1.9	2.6	0	0	19	1	0	2	9	2	1	1	3	9		
	1130	"	1528.9	844.2	..	6.9	3.9	0.1	6.3	63	..	4.1	..	3.3	0	0	20	1	1	0	8	1	1	3	5	8		
Gulmarg . . . (R)	0830	2655																										
	1730	"																										
Leh . . . *	0530	3514	3111.0	664.3	..	-13.6	-15.1	-20.9	0.9	49	..	4.0	..	4.0	0	0	13	0	13	0	0	0	0	0	0	0	14	
	0830	"	3157.4	668.7	+4.3	-11.5	-13.2	-20.1	1.1	51	-8	5.8	+0.4	0.7	0	0	1	0	1	0	0	0	0	0	0	0	27	
Skardu . . . (R)	1730	"	3142.3	667.3	..	-7.2	-8.7	-13.3	2.1	62	..	4.3	..	1.5	0	0	10	0	1	0	0	0	0	8	0	1	18	
	0830	2288																										
Gilgit . . . (R)	1730	"																										
	0830	1401																										
Misgar . . . (R)	0830	3106																										
	1730	"																										
Jammu . . .	0830	"	..	..	..	11.9	8.7	4.7	8.5	61	-5	3.9	-0.8	..	0	0	28	0	27	0	0	0	1	0	0	0
	1730	"	..	..	..	11.9	8.7	4.7	8.5	61	-5	3.9	-0.8	..	0	0	28	0	27	0	0	0	1	0	0	0
Rajasthan (West) Sri Ganganagar . . .	0530	177	1014.0	992.8	..	9.4	7.3	4.5	8.8	72	..	0.8	..	1.6	0	0	6	1	2	2	1	0	0	0	0	22		
	0830	"	1015.5	994.3	..	10.2	7.4	3.6	8.0	65	-1	1.7	-1.6	1.4	0	0	5	0	1	2	2	0	0	0	0	23		
	1130	"	1015.5	995.1	..	21.5	13.1	3.9	8.0	33	..	1.6	..	4.0	0	0	20	1	3	4	6	2	1	0	3	8		
Churu . . .	1730	"	1012.4	992.2	..	23.5	13.5	2.7	7.3	27	..	1.9	..	2.3	0	0	17	2	5	1	1	0	1	2	5	11		
	2330	"	1014.7	993.8	..	14.1	9.7	4.4	8.3	52	..	1.1	..	1.0	0	0	8	2	2	4	0	0	0	0	0	20		
	0830	291	1016.1	971.4	..	10.2	7.1	3.0	7.5	63	..	1.7	..	1.0	0	0	7	1	0	3	0	1	2	0	0	21		
Bikaner . . .	1730	"	1011.9	978.9	..	25.1	17.0	9.9	12.8	41	..	2.0	..	6.1	0	0	24	13	2	0	1	0	2	2	4	4		
	0830	224	1015.4	988.8	-0.3	11.8	7.3	0.7	6.6	49	-10	1.0	-1.2	2.8	0	0	23	1	3	2	12	1	2	1	5	1		
Bikaner (P.B.O.)	1730	"	1011.5	986.2	..	26.0	13.8	-0.7	6.0	19	..	1.3	..	5.0	0	0	27	2	3	1	0	0	2	3	16	1		
	0530	224	1013.9	987.1	..	10.3	7.3	3.4	7.9	62	..	1.4	..	1.9	0	0	9	1	2	2	3	0	0	0	1	19		
Jaisalmer . . .	1130	"	1015.0	989.4	..	23.1	15.1	8.0	10.9	39	..	2.0	..	4.3	0	1	20	3	2	8	1	6	0	0	1	7		
	2330	"	1014.4	988.2	..	15.8	10.9	5.2	9.2	50	..	1.6	..	3.0	0	0	14	6	4	2	0	0	0	1	1	14		
Phalodi . . .	0830	242	1015.2	986.7	..	14.1	9.6	4.8	8.3	51	..	0	..	5.4	0	0	15	4	3	0	2	4	2	0	0	13		
	1730	"	1011.6	984.3	..	21.1	18.7	12.5	13.9	42	..	0	..	12.4	0	3	24	9	3	0	1	5	4	0	5	1		
Jodhpur . . .	0830	234	1015.7</td																									

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—FEBRUARY, 1958 (MAGHA 12—PHALGUNA 9, 1879 SAKA)

Division and station	Hour of observation I. S. T.		Mean pressure in millibars.				Mean temperature in °C.				Cloud amount (Oktas).				Wind speed, (Km p.h.)				No. of observations.																									
	Hour	Height of barometer cistern above mean sea level in metres.	At mean sea level or height in g.p.m. of nearest standard isobaric level.		Departure from normal.		Dry bulb.		Wet bulb.		Dew point.		Vapour pressure in mbs.		Relative humidity %.		Departure from normal.		Mean amount.		Departure from normal.		Mean wind speed, km. per hour		N		NE		E		SE		S		SW		W		NW		Calm.		Variable	
			2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28															
1																																												
Rajasthan (West) — Contd.																																												
Barmer—Contd.	1730	194	1011.1	989.3	..	28.2	16.7	5.9	10.1	25	..	1.7	..	8.6	0	0	28	5	5	1	0	1	3	6	7	0	0																	
Rajasthan (East) Alwar	2330	"	1013.5	991.0	..	21.0	12.5	2.9	7.6	32	..	0.9	..	9.5	0	0	27	1	0	0	0	2	4	6	14	1	0																	
Sikar	0830	271	1015.6	983.6	..	12.2	9.9	7.4	10.5	74	..	1.8	..	1.1	0	0	8	0	2	1	1	0	1	1	1	20	1																	
Jaipur	1730	"	1011.6	981.0	..	24.9	16.5	8.7	12.2	39	..	1.9	..	2.8	0	0	26	0	3	5	4	3	0	1	1	10	7	0	0	2	0													
Jaipur (Sanganer Aerodrome)	0830	433	1015.7	964.8	..	12.5	8.9	5.1	8.5	60	..	1.8	..	3.0	0	0	28	4	4	1	0	1	1	1	0	0	8	0																
Dholpur	1130	"	1014.6	965.5	..	23.9	12.9	-1.1	5.8	21	..	1.6	..	5.7	0	0	20	2	5	10	1	0	2	0	0	0	8	0																
Aimer	1730	"	1011.3	962.5	..	25.1	14.0	1.1	6.9	23	..	2.1	..	5.2	0	0	22	7	0	1	2	0	2	4	6	6	0																	
Kotab	0230	390	1013.4	986.0	..	14.4	8.7	1.0	6.5	41	..	0.9	..	0	1	18	5	5	14	0	0	0	0	0	0	0	9	0																
Gambal	0830	176	1014.5	993.8	..	22.6	13.1	1.6	7.5	27	..	1.1	..	0	0	27	0	1	7	8	2	3	2	4	1	0	1	11	0															
Jhalawar	1730	"	1011.9	991.4	..	25.2	17.2	10.2	12.8	41	..	2.6	..	8.7	0	0	27	22	0	0	0	0	0	0	0	2	3	1	0															
Udaipur	0830	486	1015.9	959.3	7	13.1	7.8	1.8	7.0	46	-6	1.3	-0.4	3.0	0	0	17	3	4	0	1	1	1	4	3	11	0																	
Alwar	1130	"	1011.0	956.9	..	24.9	12.5	1.5	5.5	18	..	2.1	..	7.5	0	0	27	1	1	0	2	4	6	8	5	1	0	6	0															
Erinpura (Jawai Dam)	0530	257	1013.5	983.3	..	14.2	9.9	4.8	9.2	54	..	0.1	..	0.4	0	0	4	1	1	1	0	0	0	0	1	0	24	0																
Madhya Pradesh (West) Gwalior (P.B.O.)	0830	1730	"	1015.3	985.2	-0.8	15.6	10.1	3.7	7.8	47	-1	0.4	-1.4	0.6	0	0	4	1	1	1	0	0	0	0	2	0	16	0															
Alwar	1130	"	1014.4	985.2	..	25.6	14.3	1.8	7.0	22	..	0.9	..	3.2	0	0	13	2	0	0	0	0	0	0	0	4	7	15	0															
Alwar	1730	"	1010.5	981.7	..	27.3	15.1	2.2	7.2	21	..	0.9	..	0.1	0	0	1	0	0	0	0	0	0	0	0	1	0	27	0															
Alwar	2330	"	1013.3	983.5	..	18.5	11.9	4.7	8.4	41	..	0.7	..	0.1	0	0	4	2	1	1	0	0	0	0	0	0	0	24	0															
Alwar	0830	351	1015.2	974.4	..	15.8	10.4	3.9	8.5	46	..	0.6	..	1.2	0	0	28	7	4	1	1	1	4	5	6	0	0																	
Alwar	1730	"	1010.4	971.0	..	26.3	15.1	3.1	8.1	24	..	1.5	..	7.3	0	0	28	7	4	1	1	1	4	5	6	0	0																	
Alwar	0830	321	1014.9	977.6	-0.3	15.9	9.5	0.9	6.9	38	-14	0.5	-1.0	1.8	0	0	11	4	1	1	1	0	0	0	3	6	7	2	0															
Alwar	1730	"	1009.9	974.3	..	28.5	14.8	-1.8	5.8	14	..	0.8	..	5.3	0	0	26	6	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
Alwar	0230	582	1014.9	947.4	..	11.4	8.4	5.1	0.9	66	..	0.2	..	0.3	0	0	3	0	0	0	0	0	0	0	1	2	0	25	0															
Alwar	0530	1015.2	947.2	..	9.9	7.4	4.4	8.6	69	..	0.2	..	1.1	0	0	8	4	0	0	0	0	0	0	0	1	3	20	0																
Alwar	0830	1016.1	949.0	-0.6	14.4	9.6	4.3	8.3	53	+3	0.5	-0.9	1.1	0	0	17	0	3	6	1	1	3	2	1	1	11	0																	
Alwar	1130	"	1014.3	949.4	..	23.8	14.2	5.6	9.6	32	..	0.6	..	4.7	0	0	17	0	9	1	1	2	0	7	1	7	0																	
Alwar	1730	"	1010.3	946.1	..	25.8	15.6	7.2	9.4	31	..	1.0	..	5.3	0	0	21	0	9	1	1	2	0	0	0	0	0	0	28	0														
Alwar	2330	"	1015.1	947.9	..	13.3	9.6	6.0	9.5	61	..	0.3	..	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
Alwar	0830	295	1014.9	980.4	..	15.4	11.2	6.4	10.1	53	..	1.5	..	4.3	0	0	14	0	0	0	0	1	10	2	1	0	14	0																
Alwar	1730	"	1011.0	977.9	..	27.2	17.9	10.5	13.3	33	..	0.5	..	2.8	0	1	10	4	0	0	0	0	4	1	0	2	17	0																
Alwar	0230	210	1013.2	988.5	..	12.4	9.2	4.8	9.0	61	..	0.5	..	3.1	0	0	12	3	0	0	0	0	3	3	0	0	2	17	0															
Alwar	0530	1013.5	988.7	..	11.1	8.1	4.4	8.3	65	..	0.5	..	3.1	0	0	12	3	0	0	0	0	2	2	1	1	4	16	0																
Alwar	0830	1013.0	980.4	-0.9	16.2	10.5	3.9	8.1	47	-9	0.7	-1.0	2.5	0	0	22	8	1	1	1	1																							

TABLE III.—SUMMARY OF OBSERVATIONS AT FIXED HOURS—FEBRUARY, 1958 (MAGHA 12—PHALGUNA 9, 1879 SAKA)

Division and station.	Hour of observation I.S.T.	Height of barometer, centimetres above mean sea level in metres	Mean pressure in millibars.			Mean temperature in °C.			Vapour pressure in mb.			Cloud amount (Octas).			Wind speed (km. p.h.)			No. of observations.										
			At mean sea level or height in g.p.m. of nearest standard isobaric level.			At station level.			Dry bulb.	Wet bulb.	Dew point.	Vapour pressure in mb.	Relative humidity %.	Departure from normal.	Mean amount.	Departure from normal.	Mean wind speed, km. per hour.	N	NE	E	SE	S	SW	W	NW	Calm.	Variable.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (West)																												
—Contd.																												
Indore—contd.	1130	567	1012.8	950.0	..	25.6	13.5	0.8	6.7	21	..	0.8	..	11.5	0	2	24	0	3	6	3	3	5	4	2	2	0	
	1730	"	1008.8	946.7	..	28.1	14.0	-2.1	5.8	15	..	1.3	..	15.7	0	7	20	2	4	0	0	1	9	6	5	1	0	
Propal (Bairagarh)	0230	523	1012.5	952.5	..	15.6	8.9	0.6	6.6	37	..	0.3	..	6.7	0	0	22	6	6	3	1	0	1	1	1	6	0	
	0530	"	1013.1	952.8	..	13.6	7.8	0.4	6.4	42	..	0.2	..	7.8	0	0	26	7	11	2	1	0	1	2	2	0		
	0830	"	1014.7	954.8	-0.7	16.6	9.3	0.2	6.5	35	-13	0.7	-0.8	6.9	0	0	20	2	10	4	0	1	2	1	0	8	0	
	1130	"	1012.9	954.8	..	25.3	13.3	0.2	6.7	21	..	0.8	..	11.3	0	3	21	2	4	8	4	0	1	2	3	4	0	
	1730	"	1009.0	951.6	..	27.9	13.9	-1.7	5.9	15	..	0.9	..	14.4	0	6	22	4	3	0	0	0	3	9	9	0		
Khandwa	2330	"	1012.8	953.4	..	18.2	10.1	0.5	6.6	31	..	0.5	..	9.5	0	2	21	5	9	1	1	0	3	1	3	5	0	
	0830	318	1014.4	977.7	-0.6	18.3	11.1	2.5	7.4	35	-10	0.5	-0.6	3.4	0	0	13	2	5	0	0	0	3	2	1	15	0	
	1730	"	1008.8	973.7	..	30.8	16.7	3.1	7.5	17	..	0.8	..	7.0	0	0	27	5	3	0	1	0	0	0	3	15	1	
Moshangabad	0830	302	1014.6	979.4	-1.1	18.4	11.7	2.8	7.4	35	-16	0.4	-1.0	1.3	0	0	6	0	2	3	1	0	0	0	0	22	0	
Bundi	1730	"	1009.0	975.6	..	30.0	15.8	1.4	6.5	15	..	0.6	..	1.4	0	0	8	1	0	0	0	0	5	2	0	20	0	
	0830	653	1014.4	940.6	..	18.1	11.3	5.0	8.4	42	..	0.9	..	2.9	0	0	17	1	2	9	2	1	2	0	0	11	0	
Chhindwara	1730	"	1008.3	937.2	..	27.9	14.7	2.1	7.3	19	..	1.3	..	8.2	0	1	27	3	4	0	0	1	3	7	10	0		
	0830	685	1014.6	937.0	..	16.9	11.3	5.5	9.4	50	..	1.4	..	2.5	0	0	21	4	5	1	1	1	3	1	5	7	0	
Seoni	1730	"	1008.3	933.7	..	27.3	14.9	2.5	7.9	22	..	2.5	..	10.5	0	1	27	0	1	0	2	2	4	7	12	0		
	0830	619	1014.1	944.4	-1.0	19.3	13.4	8.1	11.2	50	-3	1.5	-0.1	2.5	0	0	16	3	6	2	2	1	2	0	0	12	0	
Sagar	1730	"	1008.5	941.0	..	27.6	16.8	8.3	11.2	32	..	2.0	..	3.5	0	0	22	3	2	1	1	3	9	1	2	6	0	
Newgong	0830	551	1014.2	951.4	-0.9	18.1	15.1	0.4	6.0	32	-14	0.7	-0.9	7.4	0	0	24	0	7	10	1	0	1	3	2	4	0	
	1730	"	1009.1	948.4	..	26.8	14.1	-0.3	6.8	18	..	1.3	..	10.0	0	2	26	1	3	3	0	0	0	9	12	0		
	0830	229	1015.4	988.4	-0.5	13.4	9.4	4.9	8.7	57	-9	0.7	-1.4	1.6	0	0	12	0	1	2	0	0	4	4	0	1	16	0
	1730	"	1011.0	985.3	..	27.0	15.4	4.0	8.1	24	..	0.9	..	5.2	0	0	28	4	10	0	0	0	3	2	9	0	0	
Madhya Pradesh, (East)																												
Sutna	0530	317	1013.4	975.8	..	12.3	8.8	4.2	8.4	60	..	0.4	..	1.3	0	0	11	0	3	2	0	0	2	2	2	17	0	
	0830	"	1014.7	977.9	-0.7	16.7	11.1	4.3	8.8	46	-13	0.8	-1.1	1.9	0	0	13	0	2	2	0	0	2	4	1	15	0	
	1130	"	1013.4	977.6	..	24.9	14.5	3.2	7.5	26	..	1.0	..	7.0	0	1	22	1	1	6	2	0	0	2	8	3	5	0
	1730	"	1010.1	974.6	..	26.3	15.1	3.3	8.2	24	..	1.3	..	5.3	0	0	23	0	3	2	1	0	0	0	4	13	5	0
	2330	"	1013.0	976.5	..	17.6	11.9	4.9	9.6	45	..	0.6	..	2.4	0	0	12	1	4	2	0	1	0	0	3	1	16	0
	0830	459	1015.8	961.8	..	17.4	13.9	8.7	12.9	58	-4	1.1	-1.0	3.1	0	0	13	0	4	2	5	0	1	0	1	15	0	
	1730	"	1009.5	958.6	..	26.0	16.8	9.9	12.6	40	..	2.3	..	8.9	0	0	22	2	4	1	2	0	3	5	6	0		
Jabalpur	0530	393	1013.2	967.3	..	12.9	10.4	7.5	10.6	72	..	0.6	..	1.4	0	0	10	2	0	0	6	0	0	2	0	18	0	
	0830	"	1014.8	969.3	-0.5	16.5	12.2	7.7	10.8	58	-2	0.9	-0.7	2.6	0	0	17	1	1	2	7	4	1	1	0	11	0	
	1130	"	1012.9	968.9	..	25.7	16.5	7.7	12.2	34	..	1.1	..	6.3	0	0	26	5	2	3	4	6	2	3	1	2	0	
	1730	"	1009.3	965.7	..	27.6	17.4	8.9	11.7	33	..	1.5	..	4.7	0	0	26	8	4	4	1	0	2	5	2	2	0	
	2330	"	1012.8	967.3	..	17.8	13.1	8.7	11.2	56	..	0.5	..	3.3	0	0	20	4	7	1	5	1	0	1	1	8	0	
Mandla	0830	443	1015.1	964.3	..	15.4	12.0	8.5	11.6	65	..	1.2	..	1.0	0	0	7	1	0	0	1	4	0	0	1	21	0	
	1730	"	1009.2	960.1	..	26.7	15.9	3.4	9.2	28	..	2.1	..	6.7	0	0	27	14	1	0	2	4	1	0	5	1	0	
Pendra	0530	625	1012.9	941.8	..	15.6	10.4	5.1	8.9	53	..	0.7	..	4.4	0	0	21	6	0	1	0	1	4	2	7	7	0	
	0830	"	1014.3	943.7	-1.0	18.1	12.0	5.5	9.6	84	-11	1.7	-0.2	4.6	0	0	21	7	1	1	0	3	5	0	4	7	0	
	1130	"	1012.8	943.7	..	24.0	14.3	4.6	9.2	33	..	1.9	..	9.1	0	3	23	9	3	1	2	4	2	1	4	2	0	
	1730	"	1009.2	940.7	..	25.5	14.8	4.5	9.1	29	..	2.0	..	10.3	0	1	26	10	4	0	0	3	4	3	1	0		
	2330	"	1013.0	942.5	..	18.1	12.3	6.3	10.1	50	..	1.6	..	6.2	0	0	27	7	1	0	0	0	2	7	3	1	0	
Ambikapur	0830	611	1015.3	945.6	..	16.0	12.7	9.7	12.3	68	..	1.2	..	4.5	0	1	16	4	2	3	0	2						

TABLE III.—SUMMARY OF OBSERVATIONS AT FIXED HOURS—FEBRUARY, 1958 (MAGHA 12—PHALGUNA 9, 1879 SAKA) 75

Division and station.	Hour of observation I.S.T.	Height of barometer dial above mean sea level in metres.	Mean pressure in millibars.			Mean temperature in °C.			Cloud amount (Octas).			Wind speed, Km. per hour.			No. of observations.													
															Wind direction.													
			At mean sea level in g.p.m. of nearest standard isobaric level.	At station level.	Departure from normal.	Dry bulb.	Wet bulb.	Dew point.	Vapour pressure in mbs	Relative humidity %.	Departure from normal.	Mean amount.	Departure from normal.	Mean wind speed, Km. per hour.	62 or more.	20 to 61.	1 to 19.	N	NE	E	SE	S	SW	W	NW	Calm.	Variable.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	i6	17	18	19	20	21	22	23	24	25	26	27	28	
Madhya Pradesh (East)— Centd. Jagdulpur (P.B.O.)—Contd.	1730	553	1008.8	948.5	..	28.5	18.5	10.7	13.9	34	..	3.5	..	6.5	0	1	23	3	0	0	3	6	10	0	2	4	0	
	2330	"	1012.6	950.4	..	20.2	16.0	13.0	15.2	65	..	1.3	..	2.3	0	1	10	0	2	1	3	1	3	0	1	17	0	
Gujarat Deesa . . .	0830	136	1014.8	998.7	-0.4	14.7	9.6	3.0	7.9	47	..	1.7	..	4.7	0	0	23	3	13	3	1	2	0	0	1	5	0	
	1730	"	1011.0	995.7	..	29.4	16.3	2.8	7.9	20	..	2.1	..	8.7	0	0	26	5	1	0	0	2	1	8	9	2		
Idar . . .	0830	219	1014.3	989.0	..	20.1	13.0	4.3	9.3	42	..	0.5	..	6.9	0	1	20	2	4	1	0	0	1	1	2	7	0	
	1730	"	1010.4	986.0	..	29.1	18.5	9.0	12.7	33	..	0.9	..	6.1	0	0	28	0	1	2	2	0	0	4	12	7	0	
Ahmedabad . . .	0230	55	1012.3	1005.9	..	17.7	11.9	4.9	9.3	44	..	0	..	7.4	0	0	24	5	5	0	0	0	0	6	8	4	0	
	0530	"	1012.3	1005.8	..	15.1	10.4	4.6	8.8	51	..	0	..	7.0	0	0	25	4	4	4	1	0	0	0	1	11	3	0
0830	"	1014.1	1007.7	-0.9	17.6	11.9	5.1	9.5	47	-9	0.8	-0.4	7.9	0	1	19	5	4	6	0	0	0	0	1	4	8	0	
	1130	"	1014.5	1008.2	..	27.0	16.7	7.0	10.7	31	..	0.8	..	17.5	0	3	24	3	2	11	2	0	0	0	1	8	1	0
Dohad . . .	1730	"	1010.6	1004.5	..	30.5	17.6	5.2	9.6	23	..	0.8	..	14.7	0	1	26	5	2	3	0	0	0	0	9	8	1	0
	2330	"	1012.7	1006.3	..	20.1	13.2	5.9	9.6	41	..	0.2	..	7.5	0	0	24	10	2	0	0	0	0	3	1	8	4	0
Baroda . . .	0830	333	1014.6	976.1	..	17.4	10.8	2.0	7.6	39	-17	0.1	-1.4	7.2	0	2	19	0	2	6	2	5	1	5	0	7	0	
	1730	"	1010.3	973.5	..	29.6	15.6	-0.1	6.4	16	..	0.1	..	10.2	0	2	23	0	2	0	0	0	15	5	3	3	0	
Baroda (Aerodrome)	0530	35	1012.3	1008.1	..	14.2	11.7	8.9	11.8	72	..	0.1	..	1.5	0	0	11	1	7	0	0	1	0	2	0	17	0	
	0830	"	1014.3	1010.1	..	16.3	12.7	8.7	11.8	63	+5	0.2	-0.9	1.5	0	0	11	0	3	0	2	0	2	2	17	0		
Broach . . .	1130	"	1014.6	1010.6	..	28.1	17.3	7.8	10.9	30	..	0.6	..	3.9	0	0	22	0	9	0	4	0	0	2	4	3	6	0
	1730	"	1010.5	1006.6	..	31.8	18.1	6.2	9.6	21	..	0.7	..	4.0	0	0	20	1	1	0	0	0	0	2	8	8	0	
Surat . . .	2330	"	1012.8	1008.7	..	19.1	14.1	9.3	12.1	55	..	0.1	..	2.7	0	0	17	2	4	0	0	0	0	6	2	3	11	0
	0830	38	1014.3	1009.9	..	17.4	12.3	6.5	10.2	52	..	0.3	..	4.0	0	0	22	5	0	2	1	4	1	3	6	6	0	
Saurashtra and Kutch Bhuj (P.B.O.) . . .	1130	"	1014.5	1010.3	..	27.7	17.0	6.9	10.7	29	..	0.8	..	7.6	0	2	25	3	2	6	1	4	3	7	1	0	0	
	1730	"	1010.6	1006.4	..	31.3	17.4	4.0	8.6	19	..	0.8	..	6.2	0	1	26	3	2	0	0	0	0	5	5	12	1	0
Kandla . . .	0830	17	1014.2	1012.1	..	16.9	12.9	8.9	11.6	61	..	0.9	..	4.5	0	0	28	4	4	1	7	5	2	2	3	0	0	
	1730	"	1010.2	1008.2	..	31.9	18.1	5.8	9.4	21	..	0.6	..	9.2	0	1	27	0	6	0	9	0	6	1	6	0	0	
Dwarka . . .	0530	12	1012.2	1010.8	..	17.6	15.0	12.8	15.0	75	..	0.3	..	6.6	0	0	27	6	3	4	8	2	0	0	4	1	0	
	0830	"	1014.3	1012.9	-0.1	19.1	15.1	11.5	13.9	63	+3	0.9	-0.1	5.3	0	0	23	5	5	3	4	2	0	3	1	5	0	
Porbander . . .	1130	"	1014.4	1013.0	..	28.3	18.7	11.4	13.7	36	..	0.8	..	8.7	0	0	26	5	3	2	0	0	0	3	3	10	2	
	1730	"	1010.4	1009.0	..	30.7	19.6	11.1	13.8	32	..	0.9	..	9.4	0	0	28	2	1	0	0	0	1	8	4	12	0	
Bhuj (Aerodrome)	2330	"	1012.8	1011.4	..	21.5	17.9	15.2	17.6	69	..	0.7	..	6.0	0	1	22	3	0	0	0	0	3	5	6	5	0	
	0830	106	1013.4	1001.1	..	17.1	12.3	6.7	10.5	54	..	0.2	..	3.0	0	0	14	2	0	0	0	0	3	6	2	1	14	
Mandvi . . .	0530	"	1013.4	1009.9	..	15.4	11.8	7.3	10.9	62	..	0.4	..	2.2	0	0	11	0	1	0	0	0	2	6	2	0	17	
	0830	"	1015.3	1002.8	0	16.8	12.4	7.0	10.9	57	0	0.7	-0.5	1.8	0	0	12	1	1	0	0	0	2	6	1	1	16	
Porbander . . .	1130	"	1015.4	1003.3	..	25.6	15.8	5.1	10.1	31	..	1.0	..	9.8	0	0	26	8	8	1	0	0	0	0	4	5	2	
	1730	"	1011.5	999.7	..	29.1	15.8	0.8	7.1	18	..	0.9	..	10.7	0	2	26	12	3	0	1	0	0	0	5	7	0	
Rajkot (Aerodrome)	2330	"	1014.1	1001.8	..	19.0	13.0	6.1	10.2	46	..	0	..	4.0	0	0	14	2	1	0	0	0	1	6	3	1	0	
	0830	80	1015.1	1005.6	..	16.7	12.3	6.7	10.7	56	..	0.7	..	5.5	0	0	19	1	0	0	0	0	4	9	2	2	9	
Surendranagar . . .	1130	"	1015.5	1006.2	..	25.3	15.4	3.9	9.5	31	0	1.0	..	14.6	0	5	22	4	6	4	1	0	0	2	10	1	0	
	1730	"	1012.0	1011.4	..	28.0	17.4	6.5	11.4	33	..	1.2	..	18.0	0	8	20	4	3	1	1	3	10	2	4	0	0	
Bhavnagar . . .	0830	9	1015.2	1014.1	..	17.6	15.2	13.1	15.3	77	..	0.7	..	12.0	0	2	25	10	7	0	1	0	0	1	8	1	0	
	1730	"	1012.6	1011.6	..	24.5	22.2	20.9	25.0	80	..	0.7	..	26.7	0	20	8	1	0	0	0	0	1	5	20	0	0	
Jampagar . . .	0830	11	1015.1	1013.8	-0.2	20.8	17.4	14.9	17.3	71	0	1.3	-0.5	11.7	0	2	26											

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—FEBRUARY, 1958 (MAGHA 12—PHALGUNA 9, 1879 SAKA)

Division and station.		Hour of observation I.S.T. Contd.		Height of barometer column above mean sea level in metres.		Mean pressure in millibars.		Mean temperature in °C.		Cloud amount (Octas).		Wind speed (Km.p.h.).		No. of observations.																
														At station level.	from normal.	Dew point.	Vapour pressure in mbs.	Relative humidity %.	Departure from normal.	Mean amount.	Departure from normal.	62 or more, Km. per hour.	N	NE	E	SE	S	SW	W	NW	Calm.	Variable
I	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28			
saurashtra and Kutch--																														
Contd.																														
Dhavnagar (Aerodrome)	0830	11	1014.2	1012.9	..	18.9	12.2	4.0	8.9	41	..	0.3	..	11.7	0	1	22	3	0	0	0	0	9	11	5	0				
	1130	"	1014.7	1013.5	..	26.5	15.9	5.0	9.6	28	..	0.5	..	16.4	0	6	21	11	10	1	0	0	0	0	5	1	0			
Dahuba	0830	16	1013.9	1012.1	..	19.2	15.1	10.9	13.8	63	..	0.6	..	5.9	0	0	25	0	8	0	0	0	0	0	17	3	0			
	1730	"	1011.2	1009.4	..	27.8	22.5	19.4	23.0	63	..	0.7	..	19.0	0	7	21	0	1	7	7	8	5	0	0	0	0			
Keshod	0830	51	1015.1	1009.1	..	18.6	13.2	7.9	10.8	54	..	0.8	..	8.3	0	1	24	2	16	7	0	0	0	0	0	3	0			
	1130	"	1015.1	1009.5	..	27.6	16.1	5.9	9.1	30	..	0.9	..	21.5	0	11	17	7	10	2	0	0	0	0	2	7	0			
	1730	"	1011.5	1005.7	..	29.8	17.7	8.2	10.4	30	..	0.6	..	30.7	0	24	4	4	2	0	0	0	0	2	14	6	0			
Veraval	0230	8	1012.7	1011.8	..	17.4	13.8	10.1	12.9	65	..	0	..	9.7	0	3	24	24	1	0	0	0	0	0	2	1	0			
	0530	"	1012.5	1011.6	..	16.1	12.5	8.5	11.6	65	..	0	..	10.0	0	3	20	20	2	0	0	0	0	0	1	5	0			
	0830	"	1014.3	1013.4	-0.4	18.0	14.0	9.5	12.7	62	+6	0.6	-0.5	10.7	0	0	28	18	7	0	0	0	0	0	3	0	0			
	1130	"	1014.9	1014.0	..	27.7	18.7	11.3	14.3	40	..	0.7	..	17.1	0	7	20	6	5	0	1	1	1	7	6	1	0			
	1730	"	1011.6	1011.7	..	25.7	21.3	18.8	21.7	56	..	0.5	..	23.0	0	16	12	0	0	0	6	0	3	18	7	0	0			
Osakan Dahanu	0830	5	1013.5	1012.6	..	20.4	17.2	14.4	17.1	71	..	0	..	11.1	0	1	25	13	1	0	0	0	0	3	9	2	0			
	1730	"	1011.0	1010.5	..	26.0	21.3	18.1	21.4	64	..	0.6	..	15.4	0	1	27	18	0	0	0	0	0	8	2	0	0			
Bombay (Colaba)	0830	11	1013.9	1012.7	-0.1	22.3	19.5	17.7	20.4	70	+5	1.4	+0.4	5.8	0	0	28	7	6	9	6	0	0	0	0	0	0	0		
	1130	"	1014.1	1012.9	..	27.6	21.0	16.9	19.5	53	..	1.0	..	9.0	0	1	26	3	4	6	4	1	2	2	5	1	0			
Bombay (Santacruz Aerodrome)	0230	8	1012.2	1011.3	..	19.8	16.8	14.4	16.6	73	..	0.4	..	0.9	0	0	5	4	1	0	0	0	0	0	23	0				
	0530	"	1012.0	1011.1	..	18.8	16.4	14.2	16.7	74	..	0.5	..	2.3	0	0	8	5	1	2	0	0	0	0	0	20	0			
	0830	"	1014.1	1013.2	+0.1	21.8	17.6	14.3	16.7	65	+3	1.4	+0.4	1.0	0	0	3	0	1	1	0	0	1	0	0	25	0			
	1130	"	1014.5	1013.6	..	28.5	19.4	12.3	15.3	39	..	1.5	..	7.8	0	0	23	2	5	1	4	1	1	3	6	5	0			
	1730	"	1011.1	1010.2	..	28.0	19.8	14.2	16.4	45	..	1.6	..	19.2	0	12	16	6	0	0	0	0	0	2	4	16	0	0		
	2330	"	1013.3	1012.4	..	21.4	17.6	14.8	16.9	68	..	0.4	..	1.4	0	0	7	2	0	0	0	0	0	0	5	21	0			
Alibag	0830	7	1013.8	1013.0	+0.2	21.5	18.5	16.5	18.9	74	+7	1.6	+0.6	4.8	0	0	26	6	7	11	2	0	0	0	0	0	2	0		
	1730	"	1010.4	1008.1	..	26.2	23.1	21.4	25.7	76	..	1.9	..	27.6	0	19	9	4	0	0	0	1	2	2	19	0	0			
Ratnagiri	0830	35	1013.5	1009.4	+0.2	22.0	18.7	16.6	18.8	72	..	2.4	..	0	0	28	0	0	27	0	0	0	1	0	0	0	0			
	1730	"	1011.9	1007.9	..	27.9	22.3	19.1	22.5	59	..	2.7	..	0	8	20	0	0	0	0	0	0	0	0	21	7	0			
Usgard	0830	36	1013.7	1009.5	+0.6	23.5	20.1	17.9	20.8	72	+2	3.8	+2.7	10.0	0	0	28	3	10	13	1	0	0	0	0	1	0	0		
	1730	"	1010.7	1006.6	..	28.1	23.1	20.4	24.2	63	..	3.5	..	25.0	0	16	12	7	0	0	0	0	0	0	8	13	0			
Mumbai	0230	9	1011.5	1010.5	..	21.1	19.3	18.2	20.9	83	..	0.8	..	2.0	0	0	11	10	1	0	0	0	0	0	0	17	0			
	0530	"	1011.5	1010.5	..	20.0	18.6	17.6	20.3	87	..	0.8	..	2.6	0	0	14	11	1	0	0	0	0	0	2	14	0			
	0830	"	1013.5	1012.5	..	21.6	19.1	17.4	20.0	78	..	1.9	..	2.3	0	0	14	14	0	0	0	0	0	0	0	14	0			
	1130	"	1013.8	1012.8	..	29.5	21.3	16.2	18.6	46	..	1.5	..	8.6	0	0	27	2	1	1	0	0	0	0	2	10	3	1	0	
	1730	"	1010.7	1009.7	..	28.7	22.6	19.3	22.4	57	..	2.2	..	12.0	0	0	28	1	0	0	0	0	0	0	4	17	6	0	0	
	2330	"	1012.9	1011.9	..	22.6	20.0	18.5	21.3	78	..	1.4	..	1.9	0	0	9	8	0	0	0	0	0	0	1	19	0			
	0830	206	1014.0	990.3	..	22.1	14.6	6.7	10.5	40	..	1.0	..	6.4	0	0	25	1	2	3	0	2	10	5	2	3	0			
	1730	"	1009.6	986.7	..	31.3	17.2	3.9	8.3	18	..	1.0	..	7.6	0	0	27	2	3	0	0	0	0	5	11	6	1	0		
Jalgaon	0830	201	1014.2	990.8	..	18.1	11.5	3.2	8.3	39	..	0.9	..	8.2	0	2	24	0	0	4	6	2	7	7	0	2	0			
	1730	"	1008.8	986.6	..	32.7	16.8	-0.3	6.4	13	..	0.7	..	13.3	0	4	24	4	1	0	1	2	12	7	0	0	0			
Talegaon	0830	437	1014.7	964.6	-0.4	18.3	11.6	4.4	8.3	39	-6	1.0	-0.1	3.4	0	0	23	1	0	0	0	0	2	14	6	5	0			
	1730	"	1008.3	960.6	..	31.3	16.4	0.6	6.6	15	..	1.3	..	8.9	0	1	25	5	1	1	0	1	3	7	8	2	0			
Deolali	0830	571	1015.4	950.3	..	17.2	12.2	7.2	10.6	53	..	1.3	..	4.9	0	0	24	4	1	0	1	8	8	1	1	4	0			
	1730	"	1009.3	947.1	..	29.4	16.4	5.3	9.1	22	..	1.6	..	14.4	0	5	23	3	0	0	0	1	0	10	11	3	0	0		
Aurangabad	0830	581	1014.9	949.2	-0.3	19.0	12.4	5.6	9.6	44	+4	1.6	+0.5	4.9	0	0	19	0	0	5	3	0	2	3	1	9	0			
	1730	"	1008.3	945.4	..	30.4	17.0	5.1	9.6	22	..	1.5	..	11.6	0	2	23	0	0	0	0	2	6	15	2	3	0			
Aurangabad (Chikalthana Aerodrome)																														

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—FEBRUARY, 1958 (MAGHA 12—PHALGUNA 9, 1879 SAKA)

Division and station.	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres.	Mean pressure in millibars.			Mean temperature in °C.			Vapour pressure in mbs.	Relative humidity %	Departure from normal.	Cloud amount (Oktas).	Wind speed (km. p.h.).	No. of observations.																
			At station level.			Departure from normal.								Wind direction.																
			Dry bulb.	Wet bulb.	Dew point.	7	8	9						15	16	17	18	19	20	21	22	23	24	25	26	27	28			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28			
Maharashtra—Contd. Poona—Contd.	1130	559	1012.5	950.9	..	26.9	15.8	5.8	9.9	27	..	1.1	..	4.3	0	0	19	5	3	1	3	3	1	1	2	9	0			
	1730	"	1008.0	947.3	..	30.1	17.3	7.4	10.4	25	..	1.6	..	6.2	0	0	22	3	0	0	1	5	4	5	4	6	0			
	2330	"	1013.1	950.0	..	19.7	14.8	10.9	13.3	58	..	0.3	..	1.0	0	0	7	0	1	0	0	0	0	0	1	2	21	0		
	0230	593	1012.8	945.3	..	17.0	12.3	7.9	10.9	57	..	0.6	..	5.9	0	1	16	2	0	0	0	0	0	0	5	10	11	0		
	0530	"	1013.2	945.3	..	15.3	11.4	7.6	10.7	62	..	0.8	..	4.1	0	1	14	0	0	0	0	0	0	0	5	10	13	0		
	0830	"	1014.9	947.3	..	17.3	12.4	7.8	11.0	56	..	2.0	..	4.0	0	0	20	1	0	1	0	0	0	0	12	6	8	0		
Poona (Lohagaon Aerodrome)	1130	"	1012.5	947.2	..	26.9	15.0	3.7	8.4	24	..	2.0	..	8.9	0	2	22	1	1	1	2	1	1	5	6	4	1			
	1730	"	1008.6	944.0	..	29.3	15.9	3.7	8.4	21	..	2.2	..	16.6	0	12	11	2	0	0	0	0	3	10	8	5	0			
	2330	"	1013.2	946.3	..	19.4	13.4	8.1	11.0	50	..	0.7	..	8.7	0	2	22	0	0	1	0	0	0	0	10	13	4	0		
	0330	551	1014.8	952.1	..	17.4	12.3	6.9	10.6	52	..	1.2	..	7.9	0	0	25	6	1	0	0	0	0	0	6	12	3	0		
	1730	"	1007.3	947.8	..	31.6	17.2	5.5	9.2	20	..	1.7	..	10.9	0	4	20	2	1	0	0	0	3	10	4	4	0			
	0830	521	1014.0	954.7	..	18.0	11.8	5.4	9.4	46	..	1.3	..	3.0	0	0	15	1	2	0	1	0	1	5	5	13	0			
Baramati	1730	"	1007.1	950.9	..	32.2	17.9	6.6	10.1	21	..	1.0	..	5.2	0	0	27	1	0	1	1	1	4	12	7	1	0			
	0530	479	1011.9	957.5	..	18.9	12.9	7.5	10.5	48	..	1.0	..	6.0	0	0	24	2	5	1	4	0	1	2	9	4	0			
	0830	"	1013.9	959.7	-0.3	20.5	13.8	7.7	10.9	45	+5	2.1	+1.2	5.7	0	0	27	3	5	2	3	0	5	4	5	1	0			
	1130	"	1012.5	959.8	..	28.7	17.8	9.7	12.5	31	..	1.4	..	8.7	0	2	24	4	3	1	5	3	6	2	2	2	0			
	1730	"	1007.4	955.7	..	32.6	19.8	11.4	13.7	27	..	1.6	..	8.6	0	0	28	2	6	0	7	0	10	0	3	0	0			
	2330	"	1011.6	958.1	..	23.9	15.5	8.6	11.5	38	..	0.7	..	6.8	0	0	26	1	6	3	3	1	2	5	5	2	0			
Miraj	0830	554	1014.0	951.3	-0.5	18.5	14.4	11.0	13.5	63	+5	2.0	+1.1	2.6	0	0	14	0	1	2	1	0	0	5	5	14	0			
	1730	"	1007.3	947.5	..	31.5	19.4	11.3	13.9	30	..	2.6	..	9.6	0	2	25	0	1	3	3	1	8	9	2	1	0			
	0530	570	1012.3	947.5	..	17.2	14.0	11.4	13.7	70	..	0.1	..	5.8	0	0	24	0	3	0	0	0	14	7	0	4	0			
	0830	"	1013.9	949.6	-0.1	19.7	14.8	11.1	13.2	60	+1	1.4	+0.6	3.7	0	0	19	0	4	5	1	0	3	4	2	9	0			
	1130	"	1012.0	949.6	..	28.2	16.9	8.0	11.1	29	..	1.6	..	9.9	0	2	24	1	10	6	3	0	2	3	1	2	0			
	1730	"	1007.9	946.2	..	30.4	18.0	8.9	11.6	27	..	2.0	..	14.8	0	4	22	0	0	3	1	0	4	13	5	2	0			
Vidarbha Buldhana	0830	650	1013.1	940.4	..	20.3	12.1	3.5	8.1	35	..	1.0	..	3.5	0	0	21	0	4	0	1	0	0	0	16	7	0			
	1730	"	1007.9	937.4	..	29.1	15.5	2.9	7.7	20	..	0.8	..	3.3	0	0	26	0	2	0	1	0	0	0	23	2	0			
	0830	282	1013.9	981.2	-0.8	18.1	10.7	1.5	7.1	34	+10	1.3	-0.1	3.2	0	0	22	0	0	2	3	0	5	9	3	6	0			
	1130	"	1012.5	981.0	..	28.3	15.8	2.3	7.0	20	..	0.9	..	7.8	0	2	22	1	0	7	4	0	2	7	3	4	0			
	1730	"	1007.7	976.9	..	32.8	16.9	0.2	6.4	13	..	1.5	..	5.3	0	1	25	0	2	0	1	0	6	9	7	2	1			
	0530	309	1011.4	975.6	..	17.0	9.7	0.2	6.2	32	..	0.4	..	2.4	0	0	13	1	0	3	1	0	1	5	2	15	0			
Akola (Aerodrome)	2330	"	1010.9	975.9	..	23.0	13.0	1.3	6.9	25	..	0.6	..	2.1	0	0	13	0	0	4	2	1	1	4	1	15	0			
	0830	370	1013.6	971.6	-0.7	21.8	13.1	3.3	8.1	31	-12	1.0	-0.4	8.3	0	1	25	1	13	3	1	0	6	2	2	0	2	0		
	1730	"	1008.1	967.6	..	31.1	17.0	2.7	8.0	17	..	2.0	..	8.4	0	0	26	0	1	0	0	0	0	12	5	8	2	0		
	0830	451	1013.1	962.2	..	21.9	13.6	4.0	8.9	33	..	1.3	..	9.2	0	2	22	3	5	4	2	2	3	4	1	4	0			
	1730	"	1008.0	958.8	..	31.3	17.6	4.8	8.9	19	..	1.5	..	10.9	0	4	23	3	1	0	1	1	9	8	4	1	0			
	0230	310	1011.3	975.5	..	18.2	12.9	7.7	10.6	51	..	0.6	..	6.4	0	0	27	8	4	2	0	2	0	3	8	1	0			
Nagpur	0530	"	1011.9	975.9	..	16.5	12.2	8.1	10.9	58	..	0.5	..	6.1	0	0	24	6	6	2	1	0	0	1	8	4	0			
	0830	"	1014.0	978.3	-0.9	20.0	14.4	9.3	12.1	50	-2	1.7	-0.1	6.5	0	0	25	7	7	6	2	1	1	0	1	3	0			
	1130	"	1012.5	977.9	..	28.7	19.0	11.3	13.9	36	..	1.4	..	11.2	0	3	25	2	6	9	2	4	4	0	1	0	0			
	1730	"	1003.6	974.1	..	31.5	19.4	10.0	12.9	27	..	1.9	..	9.9	0	2	26	2	2	3	1	3	8	5	4	0				
	2330	"	1011.6	976.1	..	21.3	14.5	8.3	10.8	44	..	0.7	..	8.4																

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—FEBRUARY, 1958 (MAGHA 12—PHALGUNA 9, 1879 SAKA)

Division and station.	Hour of observation I.S.T.		Mean pressure in millibars.		Mean temperature in °C.				Cloud amount (Oktas).		Wind speed (Km. p.h.)		No. of observations.																				
	2	3	At mean sea level or height in g.p.m. of nearest standard isobaric level.		At station level.		Dry bulb.	Wet bulb.	Dew point.	Vapour pressure in mbs	Relative humidity %.	Departure from normal.	Mean amount.	Mean wind speed Km. per hour.	Wind direction.	N		NE		E		SE		S		SW		W		NW		Calm.	Variable.
			4	5	6	7										16	17	18	19	20	21	22	23	24	25	26	27	28					
I																																	
Coastal Andhra Pradesh																																	
—Contd.																																	
Gannavaram	0230	24	1011.4	1008.7	..	21.9	20.6	19.8	23.1	87	..	0.5	..	0.5	0	0	6	2	0	1	2	1	0	0	0	0	22	0					
	0530	"	1011.7	1009.0	..	21.0	20.2	19.8	22.9	93	..	1.0	..	2.3	0	0	11	1	1	4	4	1	0	0	0	0	17	0					
	0830	"	1014.0	1011.4	..	24.6	22.1	20.8	24.6	79	..	2.3	..	13.3	0	3	25	0	0	5	5	15	1	2	0	0	0	0					
	1130	"	1013.5	1010.9	..	30.0	21.9	19.5	22.1	52	..	3.1	..	16.0	0	7	21	0	0	2	12	14	0	0	0	0	0	0					
	1730	"	1010.1	1007.6	..	30.6	22.4	17.7	20.6	47	..	2.5	..	3.4	0	0	14	0	0	3	7	4	0	0	0	0	0	0					
	2330	"	1012.5	1009.9	..	23.2	21.3	20.0	24.3	83	..	0.8	..	5.4	0	0	21	8	6	1	2	6	2	0	2	7	0	0					
Masulipatam	0530	3	1012.1	1011.7	..	21.6	20.9	20.4	24.2	93	..	2.7	..	7.8	0	0	23	6	0	1	4	11	1	0	0	0	5	0					
	0830	"	1014.1	1013.8	-0.5	26.1	22.6	20.9	24.6	73	-8	2.4	+0.3	12.3	0	0	27	0	0	2	9	14	2	0	0	1	0	0					
	1130	"	1014.0	1013.7	..	29.3	23.2	19.9	23.5	57	..	4.1	..	15.5	0	2	26	0	0	0	12	15	1	0	0	0	0	0					
	1730	"	1011.1	1010.8	..	27.4	22.6	20.0	23.6	64	..	3.4	..	7.4	0	0	26	1	0	0	9	15	1	0	0	2	0	0					
Nidadavolu	0830	12	1014.7	1013.3	..	24.3	21.4	19.5	23.4	75	..	2.3	..	4.9	0	0	27	9	6	8	2	0	0	1	1	0	0						
Kakinada	0830	8	1015.0	1014.1	+0.3	28.3	22.7	19.8	23.1	60	-15	2.6	0	10.1	0	0	28	0	0	19	0	9	0	0	0	0	0	0					
	1730	"	1010.8	1009.4	..	30.0	22.3	17.7	20.4	49	..	3.4	..	9.7	0	0	28	0	0	3	1	22	1	1	0	0	0	0					
Visakhapatnam	0230	3	1011.9	1011.5	..	22.4	21.1	20.4	23.9	89	..	1.0	..	1.9	0	0	10	1	1	0	1	0	1	0	2	2	3	18	0				
	0530	"	1012.4	1012.0	..	21.1	20.1	19.6	22.6	91	..	1.6	..	1.5	0	0	7	2	1	0	1	0	0	5	1	4	17	0					
	0830	"	1014.7	1014.3	0	25.7	22.3	20.4	24.3	73	-4	2.2	-0.3	1.9	0	0	11	0	1	0	0	0	0	0	5	1	4	17	0				
	1130	"	1013.9	1013.5	..	30.3	23.6	20.0	23.7	55	..	2.3	..	10.2	0	5	21	0	1	4	4	2	14	1	0	2	0	0					
	1730	"	1011.4	1011.0	..	27.2	23.2	21.2	25.1	70	..	2.0	..	12.3	0	2	25	0	0	2	4	9	12	0	0	1	0	0					
	2330	"	1013.2	1012.8	..	23.7	22.0	21.0	25.1	85	..	1.1	..	1.9	0	0	7	0	0	0	1	0	3	2	1	21	0						
Calingapatam	0830	6	1014.0	1013.3	-0.8	22.2	20.2	19.2	22.3	83	+4	2.9	+1.1	6.0	0	0	28	10	0	0	0	0	4	4	10	0	0	0					
	1730	"	1011.0	1010.3	..	27.5	23.4	21.4	25.3	70	..	2.7	..	9.0	0	0	28	0	0	4	4	10	10	0	0	0	0	0					
Telangana	0830	156	1013.5	995.7	..	24.2	18.6	14.4	17.4	56	..	2.7	..	7.5	0	0	27	5	3	3	6	6	2	1	1	1	0	0					
Ramagundam	1730	"	1008.4	991.2	..	23.1	20.0	10.0	13.8	26	..	3.0	..	7.1	0	1	27	3	3	4	10	0	4	1	3	0	0	0					
Nizamabad	0830	381	1013.5	970.3	-0.6	22.0	15.0	9.0	11.4	45	-9	1.5	+0.3	1.6	0	0	15	0	2	1	4	2	2	1	3	13	0						
	1730	"	1008.1	966.6	..	32.3	18.5	7.0	10.1	21	..	2.5	..	3.1	0	0	22	1	3	1	1	5	4	1	6	6	0						
Mahbubnagar	0830	505	1013.1	956.8	..	23.6	16.7	11.5	13.3	55	..	3.0	..	6.7	0	0	25	1	7	4	3	1	5	0	4	3	0						
	1730	"	1007.9	953.2	..	31.2	18.0	8.9	9.9	25	..	2.2	..	5.6	0	0	24	0	4	3	1	4	8	3	1	4	0						
Hyderabad (Begumpet Aerodrome)	0230	545	1011.4	950.1	..	20.0	15.9	12.8	15.2	64	..	1.3	..	3.9	0	0	11	0	0	3	7	0	0	1	0	17	0						
	0530	"	1012.1	950.5	..	18.6	15.2	12.6	14.9	70	..	1.4	..	3.5	0	0	11	2	0	2	5	0	1	1	0	17	0						
	0830	"	1013.7	952.7	0	22.3	17.0	13.2	15.5	58	-8	3.0	+1.2	4.2	0	1	13	1	0	1	7	2	1	2	0	14	0						
	1130	"	1012.2	952.5	..	28.4	18.0	10.3	13.0	34	..	2.6	..	11.3	0	1	26	0	0	2	7	5	7	3	1	0	0						
	1730	"	1008.1	949.1	..	30.7	17.8	7.8	11.0	25	..	3.3	..	8.1	0	1	21	3	4	2	3	4	5	0	1	6	0						
Hakimpet	05	613	1011.8	942.9	..	19.4	15.9	11.2	15.5	69	..	1.8	..	6.7	0	0	21	1	2	4	8	4	1	0	1	7	0						
	08	"	1013.0	944.9	..	22.4	15.4	13.9	16.1	61	..	2.6	..	10.8	0	0	28	0	1	3	13	4	2	4	1	0	0						
	1130	"	1011.7	944.8	..	28.1	19.5	13.7	15.7	43	..	2.2	..	15.0	0	2	26	0	2	1	6	8	7	1	3	0	0						
	1730	"	1008.4	941.9	..	29.5	19.9	12.9	16.4	40	..	2.6	..	9.0	0	1	25	2	2	5	4	5	4	2	2	2	0						
Hanamkonda	0830	269	1014.1	983.5	-0.5	22.8	19.7	17.7	20.5	74	+4	2.1	-0.4	11.7	0	1	24	0	0	0	9	13	3	0	0	3	0						
	1730	"	1010.5																														

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—FEBRUARY, 1958 (MAGHA 12—PHALGUNA 9, 1879 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars.			Mean temperature in °C.			Cloud amount (Oktas).			Wind speed (K.m.p.h.)			No. of observations															
			At mean sea level or height in g.p.m. of nearest standard isobaric level			At station level			Vapour pressure in mbs.			Relative humidity %.			Departure from normal			Mean wind speed, km. per hour			Wind direction									
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	Calm	Variable
Madras State—Contd.	0830	4	1014.0	1013.6	..	26.8	23.4	21.8	26.2	74	..	3.7	..	10.5	0	0	27	13	6	3	0	0	0	0	5	1	0			
	1730	"	1010.0	1009.6	..	28.3	24.7	23.2	28.2	73	..	2.4	..	24.7	0	20	8	0	2	17	7	2	0	0	0	0	0	0	0	
Pamban	0830	11	1013.7	1012.4	+0.3	27.6	24.6	23.2	29.4	77	--2	3.1	+0.5	9.5	0	0	24	2	12	7	1	0	0	0	0	2	4	0		
	1730	"	1010.3	1009.0	..	28.0	25.2	24.0	29.8	79	..	2.9	..	11.7	0	3	23	5	16	3	1	1	0	0	0	0	0	2	0	
Mathurai	0830	133	1013.8	998.7	-0.1	25.8	22.3	20.4	24.1	72	--4	4.5	+1.2	3.0	0	0	28	4	11	0	3	0	0	0	1	9	0	0		
	1730	"	1008.9	994.1	..	32.0	22.6	17.2	19.8	42	..	3.8	..	3.0	0	0	28	1	12	11	4	0	0	0	0	0	0	0		
Nagapattinam	0830	9	1014.2	1013.1	+0.4	25.9	22.7	21.1	24.9	75	--2	3.5	-0.2	9.6	0	2	24	2	7	2	4	0	0	0	1	10	2	0		
	1730	"	1010.8	1009.7	..	27.6	23.7	21.9	26.1	71	..	2.7	..	16.2	0	4	24	0	14	9	5	0	0	0	0	0	0	0		
Tiruchirapalli	0230	88	1011.6	1001.5	..	23.3	21.3	20.1	23.9	82	..	2.0	..	4.1	0	0	18	4	3	9	2	0	0	0	0	8	10	0		
	0530	"	1012.1	1002.0	..	22.5	21.0	20.1	23.8	87	..	2.1	..	2.1	0	0	11	3	3	4	0	0	1	0	0	0	17	0		
Coimbatore	0830	409	1014.1	968.4	+0.4	24.0	20.2	18.2	20.2	69	-9	4.1	+1.1	10.4	0	0	27	0	4	8	7	4	0	0	0	1	0	0		
	1730	"	1008.0	963.6	..	31.9	21.2	13.7	18.2	32	..	4.6	..	7.5	0	0	28	0	2	8	7	6	4	0	1	0	0			
Coimbatore (Peelamedu Aerodrome)	0530	398	1012.1	966.9	..	21.3	19.2	17.9	20.2	81	..	2.7	..	2.7	0	0	14	3	5	3	1	0	0	0	2	14	0			
	0830	"	1013.8	968.8	..	23.7	20.4	18.6	21.3	73	..	3.6	..	9.9	0	0	27	1	17	5	3	0	0	0	1	1	0			
Salem	1130	"	1022.3	968.2	..	28.2	21.2	17.1	20.1	51	..	3.6	..	10.8	0	12	15	0	11	9	5	0	2	0	0	0	1	0		
	1730	"	1008.0	964.5	..	31.0	20.5	13.9	15.5	37	..	3.5	..	11.0	0	0	27	0	6	8	4	4	1	0	1	0	0			
Kallakurichi	2330	"	1011.6	967.1	..	24.6	19.1	16.6	18.9	62	..	1.4	..	11.4	0	4	21	0	2	5	4	6	5	1	2	2	0			
	0530	278	1012.0	980.4	..	22.4	20.9	20.0	23.5	87	..	2.3	..	2.8	0	0	11	0	2	8	1	0	0	0	0	17	0			
Cuddalore	0830	"	1013.9	982.5	-0.1	24.5	21.6	20.0	23.3	77	+3	2.9	+1.1	6.3	0	0	28	0	12	16	0	0	0	0	0	0	0	0		
	1130	"	1012.6	981.8	..	30.2	23.3	19.5	23.1	54	..	3.4	..	7.3	0	0	24	0	6	8	3	2	1	4	0	4	0			
Vellore	1730	"	1007.7	977.3	..	33.2	25.1	21.1	25.2	51	..	2.5	..	5.0	0	0	21	0	2	12	1	2	1	3	0	7	0			
	2330	"	1011.9	980.7	..	25.9	23.1	21.6	26.1	78	..	1.7	..	14.9	0	4	23	0	5	21	1	0	0	0	0	0	1			
Madras	0530	214	1012.6	988.0	..	20.6	18.9	17.7	20.5	84	..	3.8	..	2.1	0	0	26	3	0	2	4	2	0	1	14	2	0			
	0830	"	1014.4	990.0	+0.3	22.9	19.7	17.6	20.3	72	-10	4.3	+1.9	2.1	0	0	13	0	1	1	1	6	3	0	1	15	0			
Madras (Nungambakkam)	1130	"	1013.1	989.2	..	29.3	21.0	15.7	18.1	45	..	3.7	..	6.3	0	0	24	2	4	3	4	6	2	1	2	4	0			
	1730	"	1009.0	985.4	..	31.3	20.5	13.2	15.3	35	..	3.0	..	9.0	0	0	28	0	7	6	10	5	0	0	0	0	6	0		
Mangalore	0230	16	1011.7	1009.9	..	23.0	21.5	20.6	24.5	87	..	1.3	..	3.0	0	0	17	1	0	0	2	2	0	7	5	11	0			
	0530	"	1012.3	1010.5	..	22.4	21.2	20.5	24.3	89	..	1.6	..	5.1	0	0	25	1	0	0	0	4	3	11	6	3	0			
Mangalore (Bajpe Aerodrome)	0830	"	1014.4	1012.6	+0.2	25.0	22.3	20.9	24.6	78	-2	3.4	+1.2	7.2	0	1	26	2	0	1	1	3	6	10	4	1	0			
	1130	"	1013.8	1012.0	..	30.2	23.1	19.0	23.0	51	..	3.2	..	10.4	0	0	28	2	2	10	5	2	1	0	0	0	0	0		
Honavar	1730	"	1010.2	1009.2	..	28.6	22.7	19.4	23.0	59	..	2.5	..	15.9	0	5	23	0	3	12	9	4	0	0	0	0	7	0		
	0830	26	1013.3	1010.4	-0.1	21.9	20.2	19.2	22.3	85	+11	4.5	+2.1	2.5	0	0	26	0	0	0	0	2	20	0	0	0	2	8	16	2	0
Karwar	1730	"	1010.3	1009.8	..	28.8	23.6	21.4	24.8	67	..	1.7	..	15.8	0	8	18	4	0	0	0	0	0	0	8	14	2	0		
	0830	"	1013.2	1012.7	-0.2	21.4	19.8	18.7	21.7	85	..	1.6	..	1.8	0	0	15	0	2	9	3	1	0	0	0	0	13	0		
Madras (Nungambakkam)	0830	6	1113.9	1013.3	..	25.8	22.4	20.7	24.5	74	..	2.4	..	3.5	0	0	20	2	0	0	1	3	3	6	5	8	0			
	1730	"	1010.3	1009.8	..	28.8	23.6	21.4	24.8	67	..	1.7	..	15.8	0	8	18	4	0	0	0	0	0	0	8	14	2	0		
Mangalore	0230	22	1010.8	1008.3	..	24.8	22.4	20.8	24.7	79	..	0.8	..	5.0	0	0	18	3	12	2	1	0	0	0	0	0	10	0		
	0530	"	1011.0	1008.5	..	23.9	21.8	20.6	24.4	82	..	0.9	..	7.9	0	0	27	0	9	15	2	0	0	0	0</td					

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—FEBRUARY, 1958 (MAGHA 12—PHALGUNA 9, 1879 SAKA)

Division and station	Hour of observation I.S.T.			Mean pressure in millibars.			Mean temperature in °C.			Cloud amount (Oktas).			Wind speed (km.p.h.).			No. of observations													
																Wind direction.													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
				Height of barometer cistern above mean sea level in metres			At mean sea level or height in g.p.m. of nearest standard isobaric level.	Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Mean amount	Departure from normal	Mean wind speed, km. per hour	62 or more	20 to 61	1 to 19	N	NE	E	SE	S	SW	W	NW	Calm	Variable
Mysore (North)	Bidar . . .	0830	664	1013.2	939.3	..	21.9	13.6	6.2	9.5	36	-17	3.5	+2.1	12.4	0	3	25	1	2	1	3	3	9	2	7	0	0	
		1730	"	1007.4	935.9	..	30.3	16.5	5.8	8.7	20	..	3.7	..	11.0	0	1	27	3	3	4	1	0	9	6	2	0	0	
Gulbarga	. . .	0830	458	1013.8	962.2	-0.2	23.0	14.3	6.4	9.9	35	-13	2.7	+2.0	10.5	0	0	28	4	4	5	4	6	3	1	1	0	0	
		1730	"	1007.5	958.0	..	32.5	17.9	6.2	9.9	20	..	3.8	..	11.6	0	0	26	3	2	1	2	6	6	4	2	2	0	
Bijapur	. . .	0830	594	1013.7	947.1	-0.2	21.2	15.8	11.6	14.1	56	+4	3.0	+2.0	6.9	0	1	24	7	3	0	0	3	2	4	6	3	0	
		1730	"	1006.9	943.0	..	31.9	20.9	14.5	16.7	35	..	2.5	..	6.1	0	0	27	4	1	2	1	6	8	3	2	1	0	
Belgaum	. . .	0830	781	1013.5	926.7	-0.3	19.6	14.3	9.9	12.4	56	-3	..	..	1.5	0	0	13	1	1	0	2	4	3	2	0	15	0
		1730	"	1009.8	925.6	..	27.6	17.8	10.9	13.3	37	..	..	..	4.8	0	0	24	5	0	0	3	6	8	2	0	4	0
Belgaum (C.T.O.)	. . .	0830	753	1013.7	929.9	-0.2	19.6	15.2	11.5	13.7	63	+4	1.5	+0.4	1.7	0	0	11'	3	1	2	0	0	0	3	2	17	0	
		1730	"	1007.9	926.9	..	28.7	18.7	11.7	13.5	37	..	3.3	..	10.0	0	0	27	0	0	5	2	1	6	12	1	0	0	
Belgaum (Sambre Aerodrome)	. . .	0530	761	1012.4	927.2	..	16.8	14.4	12.7	14.6	77	..	1.4	..	0.2	0	0	2	0	0	0	0	0	1	1	0	26	0	
		0830	"	1013.4	929.1	..	20.9	15.7	11.9	13.9	58	..	2.3	..	3.8	0	0	19	3	3	2	3	0	3	4	0	9	1	
Gadag	. . .	1130	"	1011.3	929.0	..	27.7	18.0	11.6	13.6	36	..	2.3	..	14.4	0	7	18	2	4	3	2	2	3	4	2	3	3	
		1730	"	1007.8	926.0	..	28.9	19.1	12.6	14.6	38	..	3.0	..	14.6	0	12	14	0	3	2	0	2	10	8	1	2	0	
Gadag (P.B.O.)	. . .	0830	650	1013.4	941.3	+0.2	22.8	17.1	13.1	15.8	55	-2	2.3	+1.4	4.9	0	0	27	2	1	5	2	4	0	9	4	1	0	
		1730	"	1007.6	937.7	..	31.2	19.2	11.4	13.5	31	..	4.0	..	5.9	0	0	25	3	2	4	1	0	4	8	3	3	0	
Raichur	. . .	0530	661	1011.7	937.9	..	20.2	16.2	13.7	15.5	68	..	0.7	..	4.7	0	0	15	0	0	1	2	1	3	7	1	13	0	
		0830	"	1013.3	940.0	..	22.7	16.8	13.3	14.9	57	..	1.6	..	4.5	0	0	17	0	0	2	5	1	1	5	3	11	0	
Mysore (South)	Bellary . . .	1130	"	1011.9	939.9	..	27.7	18.2	12.7	14.0	41	..	2.3	..	4.5	0	0	18	0	1	1	8	0	3	4	1	10	0	
		1730	"	1007.2	936.3	..	30.0	18.7	12.7	13.3	35	..	3.0	..	4.3	0	0	11	1	0	1	1	0	5	3	0	17	0	
Talcher	. . .	2330	"	1911.9	938.7	..	23.2	17.8	14.7	16.5	60	..	0.7	..	8.3	0	0	21	0	0	1	1	0	1	0	19	0	7	0
		0830	400	1013.6	968.6	-0.1	24.0	17.1	12.0	13.8	48	-6	1.7	+0.7	4.3	0	0	22	1	1	2	6	5	4	2	6	0		
Mysore (South)	Bellary . . .	1730	"	1008.1	964.6	..	32.7	19.9	10.0	12.9	26	..	2.4	..	4.1	0	0	23	3	5	5	2	3	2	1	2	5	0	
		0830	449	1013.1	962.9	-0.2	24.1	17.0	11.5	13.7	47	-7	1.4	0	1.4	0	0	11	0	0	0	0	10	0	1	0	0	17	0
Chitradurg	. . .	1730	"	1007.0	958.4	..	32.5	18.6	7.3	10.0	21	..	2.9	..	2.3	0	0	18	0	0	0	2	2	0	11	0	2	11	0
		0830	733	1013.2	932.2	+0.2	22.4	16.8	12.8	15.0	56	+2	4.9	+3.3	3.6	0	0	17	0	0	2	2	0	11	0	2	11	0	
Shimoga	. . .	0830	571	1014.2	949.9	..	20.0	17.7	16.4	18.5	80	..	2.4	..	0.5	0	0	4	0	0	2	2	0	0	0	24	0		
		1730	"	1007.0	945.4	..	31.1	19.8	12.5	14.8	33	..	2.4	..	4.3	0	0	21	1	2	1	1	2	6	7	1	7	6	
Zalchonius	. . .	0830	"	"	"	..	17.3	15.8	14.7	16.9	85	+5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
		0830	960	1530.3	1008.4	..	20.0	16.7	14.5	16.6	71	+3	3.4	+1.2	2.3	0	0	13	0	0	3	5	1	1	3	0	15	0	
Lysore	. . .	1730	"	1514.0	905.0	..	29.0	18.7	11.9	14.1	35	..	3.2	..	6.8	0	0	19	1	0	3	2	0	1	11	1	9	0	
		0830	767	1013.7	928.9	+0.3	21.6	17.9	15.5	18.1	69	+3	3.5	+1.3	5.0	0	0	23	4	5	0	1	6	6	1	5	0		
Mangalore (Central Observatory)	. . .	1730	"	1006.7	924.9	..	30.7	18.3	9.3	12.1	27	..	3.1	..	8.0	0	0	27	8	11	3	1	2	0	1	1	1	0	
		0230	921	1508.2	910.3	..	19.8	15.7	12.7	15.2	65	..	1.8	..	9.9	0	0	23	0	0	13	12	2	1	0	0	0		
Mangalore (Aerodrome)	. . .	0830	"	1533.1	912.7	+0.3	21.0	16.5	13.4	15.5	63	-7	3.5	+1.7	8.9	0	0	28	0	0	9	9	4	4	2	0	0		
		1130	"	1541.7	912.3	..	27.1	17.6	10.3	13.1	37	..	3.0	..	10.0	0	1	27	2	2	9	3	3	7	2	0	0		
Kerala	Kozhikode . . .	1730	"	1513.2	909.0	..	28.5	17.3	8.5	11.8	29	..	3.4	..	7.7	0	0	28	1	4	9	6	3	2	1	2	0		
		0530	897	1508.6	913.2	..	18.4	15.8	13.9	16.0	76	..	1.5	..	5.5	0	0	14	0	0	6	5	1	2	0	0	14	0	
Paighat	. . .	0830	"	1534.7	915.3	..	21.3	16.9	13.9	16.1	64	..	3.9	..	8.4	0	2	16	0	0	8	2	5	1	2	0	10	0	
		1130	"	1543.9	915.3	..	27.3	18.1	11.5	14.2	39	..	3.2	..	11.5	0	3	19	0	0	10	4	6	2	0	0	6	0	
Cochin (Naval Air Station)	. . .	1730	"	1516.7	911.6	..	29.6	18.2	10.2	12.6	31	..	3.7	..	7.0	0	2	12	2	0	5	4	2	0	1	0	14	0	
		2330	"	1524.6	914.1	..	22.3	16.7	12.9	15.1	56	..	1.7	..	10.3	0	2	20	1	0	13	8	0	0	0	0	6	0	
Fort Cochin	. . .	0530	5	1011.4	1010.9	..	24.5	22.4	21.4	25.5	63	..	2.5	..	4.9	0	0	27	7	14	6	0	0	0	0	1	0	0	
		0830	"	1012.9	1012.4	0	26.5	22.9	21.0	25.1	71	-8	2.3	+0.2	4.7	0	0	28	1	2	22	2	0	0	1	0	0	0	

(d) Mean of 27 days.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—FEBRUARY, 1958 (MAGHA 12—PHALGUNA 9, 1879 SAKA)

Division and station		Hour of observation I.S.T.		Height of barometer cistern above mean sea level in metres		Mean pressure in millibars		Mean temperature in °C.		Vapour pressure in mbs.		Relative humidity %		Cloud amount (Okt.u.s.)		Wind speed (Km p.h.)		No. of observations.											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28		
Kerala—Contd. Alleppey . . .	0830	4	1012.6	1012.2	..	27.6	24.6	23.1	28.4	78	..	4.8	..	5.3	0	0	27	1	12	9	5	0	0	0	0	1	0		
	1730	..	1009.0	1008.6	..	30.2	25.8	23.8	29.5	69	..	3.9	..	18.1	0	9	19	1	0	0	0	0	11	16	0	0			
Punalur . . .	0830	34	1013.3	1009.0	..	24.3	22.6	21.7	26.0	85	..	1.5	..	0.4	0	0	3	0	0	1	0	1	5	7	7	4	0	3	
	1730	..	1009.3	1005.0	..	32.6	24.5	20.5	24.2	49	..	3.8	..	5.4	0	0	25	1	0	1	5	7	7	4	0	3	0		
Trivandrum . . .	0230	64	1010.8	1003.5	..	25.2	23.5	22.8	27.6	87	..	2.3	..	4.2	0	0	27	7	13	4	0	1	0	0	0	2	1	0	
	0530	..	1011.0	1003.7	..	24.1	22.9	22.4	27.0	90	..	1.7	..	4.4	0	0	26	3	16	4	1	0	0	0	0	2	7	0	
	0830	..	1012.9	1005.6	+0.2	25.6	23.3	22.2	26.9	82	+4	2.6	+0.5	2.8	0	0	21	3	7	3	5	0	1	0	0	2	7	0	
	1130	..	1012.2	1005.0	..	30.8	24.7	21.8	26.1	59	..	4.5	..	5.5	0	0	28	5	2	0	1	2	14	2	2	0	0		
	1730	..	1009.7	1002.5	..	29.7	24.6	22.2	26.8	64	..	4.6	..	8.0	0	0	28	0	1	0	0	2	17	2	6	0	0		
	2330	..	1012.3	1005.0	..	26.2	24.0	23.0	28.4	83	..	3.2	..	4.0	0	0	22	5	5	4	0	0	0	1	7	6	0		
	0830	8	1012.9	1012.0	..	26.8	24.0	22.7	27.6	78	..	3.3	..	2.8	0	0	19	8	6	3	0	2	0	0	0	9	0		
Arabian Islands Mimicoy*	0530	2																											
	0830	..																											
	1130	..																											
	1730	..																											
	2330	..																											
Amini Divi* Hill Stations excluding Kashmir—	0830	4																											
	(R)	0830																											
Walong (R)	0830																												
	1730																												
Kohima . . .	0830	1406	1543.8	864.1	..	13.2	8.2	1.9	7.3	49	..	3.1	..	0	0	28	15	1	5	2	2	0	1	0	0	0	0		
	1730	..	1517.7	861.4	..	14.3	11.5	9.0	11.5	72	..	3.5	..	0	0	28	2	0	1	0	1	7	3	14	0	0			
A' a:t	0830	1097																											
	1730	..																											
Shillong . . .	0830	1500	1506.6	850.9	-0.3	12.5	7.9	3.2	7.0	52	-9	2.9	+0.8	3.1	0	0	13	0	0	0	0	0	0	12	1	0	15	0	
	1730	..	1485.4	848.7	..	12.6	9.2	5.4	9.2	63	..	5.0	..	0.2	0	0	2	0	0	0	0	0	0	0	2	0	0	26	
Cherrapunji . . .	0830	1313	1504.3	869.7	-0.7	12.9	10.7	8.6	11.3	77	+17	1.7	-0.8	4.5	0	0	28	0	2	4	0	1	21	0	0	0	0		
	1730	..	1485.7	867.5	..	13.3	11.2	9.2	10.8	77	..	3.1	..	3.6	0	0	28	0	0	0	0	0	0	28	0	0	0		
Darjiling (Raj Bhawan) . . .	0830	2127	1525.2	791.0	+2.8	7.5	5.6	3.4	6.8	77	+6	4.8	+1.0	0.6	0	0	5	1	0	0	0	0	0	2	2	0	23		
	1730	..	1506.4	788.7	..	6.9	5.6	4.3	8.2	84	..	6.0	..	1.1	0	0	8	0	0	0	0	0	0	4	4	0	20		
Kalimpong . . .	0830	1209	1505.9	820.9	-0.3	10.9	9.3	7.9	10.4	81	+8	1.6	+1.2	2.9	0	0	27	0	0	0	0	0	25	0	0	0	2		
	1730	..	1489.6	878.8	..	10.9	9.5	8.5	10.9	83	..	2.3	..	2.9	0	0	27	0	0	0	0	0	25	0	0	0	2		
Katmandu . . .	0830	1337	1515.1	868.6	..	7.4	6.0	4.3	8.4	81	-4	2.6	-1.7	0.2	0	0	1	0	0	1	0	0	0	0	0	0	27		
	1730	..	1497.8	865.5	..	16.2	10.7	5.2	8.8	49	..	2.5	..	2.0	0	0	14	1	0	0	1	1	2	2	7	14			
Mukteswar (Kumaon) . . .	0830	2311	3099.7	771.5	-0.6	5.4	1.7	-4.4	4.4	52	-2	2.8	-0.3	11.9	0	2	22	0	7	4	0	2	0	6	5	4	0		
	1730	..	3096.5	770.6	..	7.5	4.1	0.7	5.9	60	..	2.6	..	13.6	0	5	20	0	1	0	1	1	3	12	7	3			
Nainital . . .	0830	1953	1493.4	804.5	..	6.7	2.8	-2.3	5.0	54	..	3.2	..	3.9	0	0	12	0	0	2	2	0	0	4	4	16			
	1730	..	1474.7	803.1	..	8.7	4.8	0.7	5.9	55	..	3.0	..	5.1	0	0	23	0	2	7	1	3	0	10	0	5			
Tapoban . . .	0830	..	..	..	..	6.7	..	..	..	..	..	..	..	0	..	..	..	..	..	..	..	..	..	..	..	..	..
	Badrinath . . .	0830																											
Lokpal . . .	0830	..	..	..	..	-7.7	-9.2	-12.6	2.0	65	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Mussooree . . .	0830	2042	1473.4	795.3	-1.5	7.0	3.6	-2.4	5.9	55	-10	3.0	-0.8	2.8	0	0	21	12	1	0	2	4	2	0	0	7		
Simla . . .	0830	..	..	..	..	8.7	5.9	4.0	7.7	71	..	4.2	..	4.1	0	0	26	2	2	0	6	11	5	0	0	2	
	1730	..	..	..	..	5.3	1.5	-5.2	4.4	49	+3	2.7	-0.9	2.2	0	0	21	3	3	1	7	6	1	0	0	7	
Dahousie . . .	0830	1959	1451.0	799.5	..	6.7	2.3	-4.1	4.4	47	..	1.1	..	1.3	0	0	6	0	6	0	0	0	0	0	0	0	22		
	1730	..	..	..	..	7.7	5.1	1.9	7.0	64	..	2.3	..	0.9	0	0	4	0	4	0	0	0	0	0	0	0	24
Dharamshala . . .	0830	1211	1540.6	884.3	..	11.2	7.1	2.5	7.0	55	..	2.5	..	2.2	0	0	28	1	0	0	1	1	24	1	0	0			
	1730	..	..	..	..	15.3	9.8	4.0	8.3	49	..	3.6	..	2.2	0	0	28	1	0	0	1	1	24	1	0	0	
Abu . . .	0830	1195	1505.6	883.0	0	13.9	10.2	6.6	9.9	63	+20	0.5	-1.2	1.2	0	0	5	0	1	0	0	0	2	2	0	0	23		
	1730	..	..	..	..	19.0	14.2	10.6	12.7	57	..	0.7	..														

*Tammawiki, L.A.

(B) **Re-intervention**

*Data given as addenda in December, 1958 issue.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—FEBRUARY, 1958 (MAGHA 12—PHALGUNA 9, 1879 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer taken above mean sea level metres.	Mean pressure in millibars	Mean temperature in °C				Cloud amount (Oktas).	Wind speed (Km.ph.)	No. of observations																				
				At station level		Departure from normal	Relative humidity %			Departure from normal		Mean amount.	Mean wind speed, km. per hour	Wind direction																
				At mean sea level or height in g.p.m. of sealevel standard isobaric level.	Departure from normal					Dew point	Vapour pressure in mb.			16	17	18	N	NE	E	SE	S	SW	W	NW	Calm.	Variable				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28			
Hill Stations excluding Kashmir—(Contd.)	0530	2343	3141.2	771.5	..	9.8	8.2	6.1	9.8	82	..	4.9	..	6.3	0	0	22	5	1	3	4	1	0	0	8	6	0			
	0830	..	3165.9	773.1	+1.0	12.5	9.8	6.8	10.4	73	+21	2.4	+0.6	5.9	0	0	21	3	4	3	5	0	0	0	6	7	0			
	1130	..	3180.8	773.3	..	16.6	12.3	8.6	11.5	62	..	4.6	..	6.6	0	0	26	3	5	1	5	2	1	1	8	2	0			
	1730	..	3157.8	771.8	..	14.2	12.2	10.7	13.0	81	..	7.5	..	5.7	0	0	26	2	1	0	12	0	0	1	10	2	0			
	2330	..	3160.5	772.9	..	11.1	9.9	8.2	11.4	87	..	5.4	..	6.7	0	1	20	5	1	2	2	3	0	0	8	7	0			
Ootacamund	0830	2249	1533.3	781.4	+0.6	11.3	9.3	8.0	10.5	80	+14	2.6	+0.8	0.9	0	0	2	0	1	0	0	0	0	0	26	0	0			
•	1730	..	1505.6	780.0	..	16.9	13.0	11.0	12.8	72	..	5.4	..	1.6	0	0	4	1	0	0	0	0	0	0	24	0	0			
Coonoor	0830	1747	1530.6	829.2	..	16.6	13.0	10.2	12.3	69	+7	3.0	+0.8	1.2	0	0	10	5	0	1	2	1	1	0	0	18	0	0		
Sikkim, Lachen	0830	6.8
Tibet Yatung (Chumbi)	0830	-0.5	-1.0	-1.1	5.4	90	+8	0	-2.5	
Lhasa	0830	3683	3062.0	649.2	..	0.7	-1.5	-5.1	4.2	64	..	0.5	..	4.6	..	..	..	0	2	0	12	0	5	0	1	8	0	0
Ceylon, Colombo	0830	7	1012.9	1012.1	+0.3	25.0	23.1	22.5	26.6	84	-1	3.0	-0.6	5.6	0	0	25	3	11	8	3	0	0	0	0	3	0	0		
Trincomalee	0830	3	1013.1	1012.8	+0.2	26.6	24.1	22.7	28.1	80	-1	4.0	+0.6	9.4	0	2	22	3	8	1	1	3	5	0	3	4	0	0		
Batticaloa	0830	3	1013.4	1010.0	..	27.9	24.2	22.3	26.9	72	..	4.6	..	14.9	0	5	23	9	13	4	1	0	0	0	1	0	0	0		
Hambantota*	0830	15	1012.9	1011.2	+1.1	25.7	23.7	22.9	27.8	84	0	2.5	-0.3	17.6	0	7	10	13	13	0	0	0	0	1	1	0	0	0		
•	1730	..	1009.6	1007.9	..	28.0	24.7	23.9	28.3	75	..	4.1	..	24.8	0	10	7	2	11	9	2	0	3	0	0	1	0	0		
Mannar	0830	4	1013.7	1013.3	..	25.8	23.6	22.3	27.4	82	..	3.2	..	13.5	0	0	27	2	10	7	7	1	0	0	0	1	0	0		
•	1730	..	1010.1	1009.7	..	29.0	24.4	22.1	26.9	67	..	4.0	..	15.0	0	7	21	13	9	1	0	0	0	1	4	0	0			
Hydrometeorological Observatories Damodar Catchment	0830	239	1014.9	987.1	..	17.5	13.4	9.3	12.0	61	..	1.8	..	3.9	0	0	24	1	0	1	2	1	0	6	13	4	0			
Bokaro	0830	..	1010.1	983.2	..	26.1	15.8	4.9	9.7	30	..	2.5	..	7.1	0	0	28	5	1	1	4	0	2	3	12	0	0			
Hazaribagh	0830	615	1015.6	945.6	..	16.7	12.6	8.5	11.1	60	..	1.0	..	4.3	0	0	24	0	0	0	0	0	0	5	12	7	4	0		
•	1730	..	1010.5	941.1	..	17.9	13.1	8.5	11.2	55	..	1.0	..	3.1	0	0	17	0	0	0	0	0	0	3	7	7	11	0		
Titaiya	0830	..	..	..	..	18.7	12.9	6.5	10.2	48	..	1.7	..	9.1	0	2	21	0	1	2	2	0	0	7	10	1	5	0
•	1730	..	..	..	..	24.2	14.0	2.0	7.6	27	..	1.9	..	9.0	0	1	24	4	0	1	2	0	0	0	6	12	3	0
Ramgarh	0830	..	..	..	..	17.8	13.6	9.5	12.1	60	..	1.8	..	3.8	0	0	27	0	0	2	5	0	6	12	2	1	0	
Panchet Hills	0830	..	..	..	..	25.1	15.9	7.5	10.7	34	..	2.3	..	4.1	0	0	26	1	0	1	3	1	2	0	15	3	1	1
•	1730	20.6	15.0	9.7	12.6	52	..	1.9	..	3.1	0	0	27	4	1	1	2	0	1	1	1	9	1	6	4	0
Durgapur	0830	25.8	16.5	7.9	11.3	35	..	2.0	..	3.0	0	0	24	2	3	1	1	1	0	5	2	3	10	1	0	
•	1730	..	..	..	..	21.1	16.8	13.3	15.6	63	..	1.5	..	10.2	0	3	24	5	1	1	0	5	2	3	10	1	0	
Mahanadi Catchment	0830	..	..	..	..	26.2	18.6	12.8	15.3	46	..	2.0	..	7.8	0	1	25	5	2	1	0	3	3	2	10	2	0	
Barasail	0830	64	1014.3	1006.9	..	22.0	18.5	16.1	18.2	70	..	2.1	..	4.4	0	0	18	2	5	0	1	6	3	1	0	10	0	0		
Hirakud	0830	..	1010.1	1002.9	..	27.6	21.9	18.5	22.0	59	..	3.0	..	3.9	0	0	16	6	1	0	1	5	2	0	1	12	0	0		
•	1730	159	1014.4	996.2	..	22.0	17.0	12.9	15.3	58	..	1.4	..	5.5	0	1	21	5	8	3	2	4	0	0	0	6	0	0		
Khigawan	0830	..	..	..	..	28.4	19.2	12.0	14.9	39	..	1.5	..	6.8	0	3	17	1	4	2	2	0	1	5	4	8	1	0
•	1730	..	..	..	..	20.5	15.9	11.9	14.4	60	..	1.8	..	..	..	..	..	4	4	2	3	1	5	3	5	1	0	
Sonepur	0830	..	..	..	..	27.3	18.4	11.9	14.0	42	..	1.8	..	9.4	0	0	21	3	1	2	2	3	3	3	7	0	0	
Ginabahar	0830	..	..	..	..	19.9	14.9	10.3	13.5	58	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhimkund	0830	..	..	..	..	20.9	17.0	14.0	16.3	65	..	3.4	..	4.0	0	0	24	4	0	1	1	2	3	1	12	4	0	
Nerbada Catchment	0830	..	..	..	..	25.5	18.2	12.0	15.1	48	..	4.5	..	2.6	0	0	15	0	1	0	2	2	5	1	4	13	0	0
Punasaif	0830	
•	1730	18.6	11.4	3.1	7.7	36	..	0.2	..	7.1	0	0	22	2	12	0	0	0	2	6	0	0	6	0	0	
Bagra Tawa	0830	..	..	..	..	29.3	15.5	-0.2	6.5	16	..	0.6	..	6.4	0	0	23	0	8									

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—FEBURARY, 1958 (MAGHA 12—PHALGUNA 9, 1879 SAKA)

(R) Register not received

(d) Mean of 27 days

*Data not reliable.

(f) Mean of 25 days

MONTHLY MEANS OF UPPER WINDS, FEBRUARY, 1958
(Magha 12—Phalgun 9, 1879 Saka)

During the month, observations of velocity and direction of upper winds were made at 55 stations in India. Out of these, at 43 all the observations, were taken by means of pilot balloons and at 12 stations some observations were made by means of pilot balloons while the other observations by the radiowind method. Particulars of these stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the table overleaf. All radio-wind ascents have been indicated by means of an asterisk (*) against the scheduled hours.

Data from ascents made at the scheduled time or within two hours on either side of the scheduled times of regular observations have been used for averaging.

Data up to 9.0 km. a.m.s.l. are given under Table IV and data above 9.0 km. a.m.s.l. under Table V.

In Tables IV and V :

n—represents the number of observations,

V—represents the mean wind speed in knots irrespective of direction,

v—represents the resultant mean velocity in knots,

D—represents the direction of the resultant mean wind in degrees East of North.

Mean and resultant winds are given in this publication for the following heights :

Surface, 0.15 km. a.g., 0.3, 0.6, 0.9, 1.5, 2.1, 3.0, 3.6, 4.5, 5.4, 6.0, 7.2, 9.0, 10.5, 12.0, 14.1, 16.2, 18.0, 21.0, 24.0, 27.0, 30.0, 33.0 and 36.0 km. a.m.s.l. Of these the levels 1.5, 3.0, 5.4, 7.2, 9.0, 12.0, 14.1 and 16.2 km. a.m.s.l. are considered as the best approximations to the standard pressure levels 850, 700, 500, 400, 300, 200, 150 and 100 mb. respectively.

PARTICULARS OF PILOT BALLOON AND RAWIN STATIONS IN INDIA

Station	Lat. N	Long. E	Height of Anemometer head a.m.s.l. in metres	Date of opening	Approximate times of flight (IST)		
Agartala	23°53'	91°15'	17	28th November, 1951 . . .	0530	1730	2330
Ahmedabad	23°04'	72°38'	61	19th May, 1928 . . .	0530	1730	2330
Amausi	26°45'	80°53'	132	20th November, 1950 . . .	0530	1730	2330
Anbala	30°32'	76°46'	279	1st April, 1941 . . .	0530	1730	2330
Amritsar	31°38'	74°52'	243	21st June, 1957 . . .	0530*	1730*	
Anantapur	14°41'	77°37'	364	12th February, 1946 . . .	0530	1730	2330
Asansol	23°41'	86°59'	135	29th May, 1942 . . .	0530	1730	2330
Baghdogra	26°38'	88°19'	140	7th June, 1953 . . .	0530	1730	2330
Bairagarh	23°17'	77°21'	532	26th February, 1943 . . .	0530	1730	2330
Bamrauli	25°27'	81°44'	103	28th February, 1930 . . .	0530*	1130	1730* 2330
Bangalore	12°58'	77°35'	936	19th May, 1915 . . .	0530	1730	2330
Bareilly	28°22'	79°24'	180	12th January, 1943 . . .	0530	1730	
Begumpet	17°27'	78°28'	543	1st September, 1929 . . .	0530	1730	2330
Bhagalpur	25°14'	86°57'	61	19th May, 1950 . . .	0530	1730	
Bhubaneshwar	20°15'	85°50'	55	5th December, 1942 . . .	0530	1730	2330
Bhuj	23°15'	69°48'	111	14th September, 1937 . . .	0530	1730	2330
Bikaner	28°00'	73°18'	229	18th October, 1945 . . .	0530	1730	2330
Chikalthana	19°51'	75°24'	583	7th October, 1951 . . .	0530	1730	2330
Cochin†	09°56'	76°14'	3	16th March, 1942 . . .	0530	1730	2330
Darjeeling	27°03'	88°16'	2115	21st May, 1956 . . .	0830	1730	
Dum Dum	22°39'	88°27'	13	14th May, 1921 . . .	0530*	1130	1730* 2330
Gadag	15°25'	75°38'	650	3rd May, 1943 . . .	0530	1730	2330
Gannavaram	16°32'	80°48'	34	8th April, 1942 . . .	0530	1730	2330
Gauhati	26°05'	91°43'	51	12th March, 1955 . . .	0530*	1130	1730* 2330
Gaya	24°45'	84°57'	119	19th March, 1937 . . .	0530	1730	2330
Gopalpur	19°16'	84°53'	24	15th February, 1946 . . .	0530	1730	2330
Gorakhpur	26°45'	83°22'	83	5th January, 1943 . . .	0530	1730	
Gwalior	26°14'	78°15'	219	7th May, 1938 . . .	0530	1730	2330
Imphal	24°51'	93°58'	805	8th March, 1952 . . .	0530	1730	2330
Jabalpur	23°10'	79°57'	402	30th July, 1928 . . .	0530	1730	2330
Jagdalpur	19°05'	82°02'	562	25th March, 1948 . . .	0530	1730	2330
Jaipur	26°49'	75°48'	404	6th June, 1953 . . .	0530	1730	
Jamshedpur	22°49'	86°11'	147	23rd July, 1942 . . .	0530	1730	
Jharsuguda	21°55'	84°05'	240	1st May, 1944 . . .	0530	1730	2330
Jodhpur	26°18'	73°01'	229	15th October, 1934 . . .	0530*	1130	1730* 2330
Madras	13°00'	80°11'	29	8th April, 1926 . . .	0530*	1130	1730* 2330
Mangalore	12°52'	74°51'	40	4th June, 1928 . . .	0530	1730	2330
Minicoy	08°18'	73°00'	16	14th April, 1941 . . .	0530	1730	2330
Mohanbari	27°29'	95°01'	112	1st June, 1948 . . .	0530	1730	2330
Mussoorie	30°27'	78°05'	2050	3rd November, 1955 . . .	0830	1730	
Nagpur	21°06'	79°03'	316	23rd April, 1943 . . .	0530*	1130	1730* 2330
Nampara	27°50'	81°30'	141	23rd April, 1957 . . .	0530	1730	
New Delhi	28°35'	77°12'	227	20th October, 1936 . . .	0530*	1130	1730* 2330
Poona	18°32'	73°51'	593	5th January, 1925 . . .	0530	1730	2330
Port Blair	11°40'	92°43'	93	29th October, 1945 . . .	0530*	1130	1730* 2330
Raipur	21°14'	81°39'	308	15th July, 1944 . . .	0530	1730	2330
Raxaul	26°59'	84°51'	83	28th October, 1957 . . .	0530	1730	
Santa Cruz	19°07'	72°51'	14	14th May, 1933 . . .	0530*	1130	1730* 2330
Tezpur	26°37'	92°47'	79	12th August, 1932 . . .	0530	1730	2330
Tiruchirapalli	10°46'	78°43'	96	22nd June, 1936 . . .	0530	1730	2330
Trivandrum	08°29'	76°57'	73	8th December, 1928 . . .	0530*	1130	1730* 2330
Udaipur	24°35'	73°42'	587	24th June, 1947 . . .	0530	1730	2330
Vengurla	15°52'	73°38'	8	22nd November, 1941 . . .	0530	1730	2330
Veraval	20°54'	70°22'	17	13th October, 1941 . . .	0530*	1130	1730* 2330
Visakhapatnam	17°43'	83°14'	10	24th September, 1928 . . .	0530	1730	2330

♦ Radio wind ascents.

† Naval Meteorological Office.

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS.

Winds up to 9.0 km. above mean sea level

February 1958 (Magh 12—Phalgun 9, 1879 Saka)

Station	AGARTALA								AHMEDABAD								
	0530		1730		2330		0530		1730		2330						
Time in I. S. T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Ht. in Km.																	
Surface . . .	28	2·3	1·5	153	28	2·8	0·4	203	28	2·5	1·6	137	28	3·9	2·5	003	
0·15 a. g. . .	25	8·1	3·7	200	28	9·3	3·3	232	27	10·9	4·6	201	28	16·6	10·5	005	
0·3 a.m.s.l. . .	25	8·5	4·3	230	28	9·5	4·5	232	27	10·8	5·3	220	28	16·3	9·8	009	
0·6 . . .	25	8·6	5·8	245	28	9·3	7·1	228	27	10·9	7·8	234	28	12·3	6·6	018	
0·9 . . .	24	9·3	6·7	255	28	9·6	8·6	233	26	10·6	9·1	245	28	9·8	5·5	360	
1·5 . . .	23	12·6	9·5	268	28	11·0	10·0	248	26	13·9	13·0	256	28	9·2	5·5	293	
2·1 . . .	20	17·4	14·3	287	27	17·9	16·7	268	24	20·4	19·4	273	28	12·2	8·9	261	
3·0 . . .	16	28·5	23·7	291	21	25·5	24·5	281	18	26·4	23·8	283	28	17·1	15·3	265	
3·6 . . .	11	29·7	29·0	288	8	26·5	25·3	281	7	29·9	29·4	281	25	23·8	22·4	269	
4·5 . . .	7	29·7	28·4	282	2	26·0	26·0	283	2	35·0	35·0	263	19	28·6	26·7	272	
5·4 . . .	4	38·5	35·7	285					1	35·0	35·0	265	11	34·5	30·3	272	
6·0 . . .	1	54·0	54·0	290									6	35·8	34·6	268	
7·2 . . .													1	35·0	35·0	250	
9·0 . . .													19	60·7	59·4	268	
													9	71·8	71·1	272	
Station	AMAUSI								AMBALA								
Time in I. S. T.	0530		1730		2330		0530		1730		2330						
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Surface . . .	28	4·1	1·7	317	28	5·2	3·6	319	28	3·8	1·9	330	28	5·8	3·5	329	
0·15 a. g. . .	28	16·6	9·7	3·3	27	11·2	7·6	313	28	14·0	8·7	323	27	15·6	11·3	338	
0·3 a.m.s.l. . .	28	16·9	9·7	317	27	11·5	7·9	309	28	14·3	9·2	322	27	7·7	4·6	337	
0·6 . . .	28	16·8	10·2	333	27	11·5	7·8	302	28	14·2	9·4	319	27	16·5	12·1	334	
0·9 . . .	28	16·2	10·1	313	27	11·6	8·6	301	28	14·3	9·9	308	27	16·0	12·5	328	
1·5 . . .	26	16·4	13·1	299	27	14·8	12·1	298	26	13·3	12·2	296	27	14·0	10·1	317	
2·1 . . .	21	17·5	15·0	280	24	16·2	14·7	287	22	16·9	14·6	273	27	13·0	8·5	298	
3·0 . . .	14	15·9	15·1	271	23	23·8	21·7	275	12	18·9	18·1	274	25	12·1	7·6	281	
3·6 . . .	3	16·0	13·9	262	22	26·6	24·9	278	1	18·0	18·0	265	17	13·4	11·2	270	
4·5 . . .	1	17·0	17·0	270	20	35·9	33·4	277					6	19·2	18·7	269	
5·4 . . .	1	31·0	31·0	270	17	43·2	40·8	275					2	20·0	19·2	270	
6·0 . . .									11	51·0	48·8	275		2	20·5	18·7	279
7·2 . . .									5	71·4	55·4	290					
9·0 . . .													19	45·3	43·5	271	
													6	65·7	64·7	279	

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9·0 Km. above mean sea level

February 1958 (Magha 12—Phalgun 9, 1879 Saka)

Station	AMRITSAR								ANANTAPUR								ASANSOL								
	0530*				1730*				(530				1730				2330				0530				
Time in I. S. T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Ht. in Km.																									
Surface . . .	28	2·8	2·2	351	28	3·5	1·7	325	28	3·6	1·8	207	28	4·4	3·0	070	28	5·9	4·1	102	28	1·7	1·3	280	
0·15 a. g. . .	26	4·0	3·1	352	27	3·6	1·4	344	28	9·9	4·6	195	28	5·7	2·5	077	28	12·8	9·3	106	27	9·1	4·3	291	
0·3 a.m.s.l. . .	26	4·0	2·9	353	27	4·5	3·1	316													27	9·1	4·4	296	
0·6 . , .	26	8·7	6·3	343	27	8·8	5·7	311	28	10·4	3·9	179	28	5·8	2·3	070	28	12·7	8·7	112	27	11·4	6·8	301	
0·9 . , .	26	7·7	5·6	328	27	7·2	5·1	298	28	12·0	4·1	141	28	5·9	1·9	069	28	11·4	8·5	110	27	13·9	9·8	296	
1·5 . , .	26	9·9	6·6	318	27	8·8	6·3	294	27	9·8	2·0	086	28	5·9	1·1	089	28	6·2	2·1	055	26	17·2	15·7	277	
2·1 . , .	26	12·0	5·9	305	27	9·3	5·7	288	27	8·6	1·2	227	28	6·3	0·6	040	28	6·2	3·5	300	25	23·0	20·0	280	
3·0 . , .	26	13·2	9·3	292	26	10·2	6·8	268	26	7·8	4·0	288	28	9·2	4·8	260	27	9·9	6·5	269	6	21·0	19·9	286	
3·6 . , .	26	15·9	12·0	285	26	11·3	8·1	278	26	9·9	7·7	278	26	9·7	7·7	262	23	12·4	9·1	274					
4·5 . , .	25	18·8	14·8	281	26	15·6	13·5	271	23	9·7	7·6	269	26	12·8	1·1	166	15	10·3	5·5	255					
5·4 . , .	24	26·3	23·8	282	25	24·5	22·0	271	14	11·2	7·9	272	25	13·6	9·6	272	9	12·4	8·1	253					
6·0 . , .	23	32·6	30·6	277	25	29·0	27·6	268	10	13·0	7·9	277	23	14·0	9·2	275	8	12·5	8·0	220					
7·2 . , .	21	52·2	50·5	274	23	43·3	43·0	268	3	17·0	15·6	282	19	14·7	7·0	277	3	15·3	11·1	240					
9·0 . , .	15	69·0	63·5	278	17	58·8	57·4	271	1	29·0	29·0	260	14	14·2	9·1	284									
Station	ASANSOL								BAGHDOGRA								BAIRAGARH								
Time in I. S. T.	1730				2330				0530				1730				2330				0530				
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Surface . . .	28	2·2	1·3	323	28	2·4	0·9	289	28	3·2	2·5	034	28	3·0	0·9	104	28	3·0	2·4	016	28	4·3	2·8	037	
0·15 a. g. . .	27	7·9	4·3	304	28	10·6	3·9	327	27	8·7	8·1	080	28	6·4	1·1	130	28	6·8	5·0	068	28	14·0	7·9	064	
0·3 a.s.l. . .	27	7·9	4·5	304	28	10·9	4·2	325	27	8·6	8·1	081	28	6·4	1·4	135	28	6·8	4·4	073					
0·6 . , .	27	8·3	5·6	295	28	12·9	6·9	300	27	9·3	8·6	086	28	5·6	1·9	203	28	6·3	2·6	095	28	13·1	7·7	054	
0·9 . , .	27	8·6	7·1	281	28	13·2	9·5	280	27	7·9	6·5	085	28	6·1	2·9	221	28	6·7	0·8	267	28	13·7	6·7	049	
1·5 . , .	27	11·6	10·6	278	27	15·5	13·4	265	25	5·0	1·3	099	28	7·4	4·8	240	27	9·1	6·4	260	28	11·8	7·3	290	
2·1 . , .	26	17·8	16·7	285	25	19·0	17·8	272	24	8·4	6·9	278	28	10·1	8·6	268	24	11·6	10·2	266	28	16·2	13·8	263	
3·0 . , .	8	26·1	25·2	299	9	27·6	24·5	278	21	23·0	22·4	278	25	19·7	19·0	278	21	19·0	18·1	275	26	22·1	2·2	259	
3·6 . , .	2	27·5	27·5	292					12	31·3	30·7	275	19	25·8	25·3	279	13	22·3	21·4	276	15	25·8	24·5	274	
4·5 . , .									3	29·0	27·8	274	15	34·5	34·1	280	3	29·0	28·7	275	4	25·5	25·2	280	
5·4 . , .									1	29·0	29·0	295	7	52·3	52·1	285	1	23·2	23·0	270	1	19·0	19·0	280	
6·0 . , .										5	55·2	54·5	282	1	25·0	25·0	261	1	25·0	25·0	261				
7·2 . , .																									
9·0 . , .																									

TABLE IV.—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

February 1958 (Magha 12—Phalguna 9, 1879 Saka)

Station	BAIRAGARH								BAMRAULI															
	1730				2330				0530*				1130				1730*				2330			
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
	Ht. in Km.																							
Surface . . .	28	5.2	4.4	282	28	5.1	3.0	016	28	2.5	0.9	255	28	6.5	2.7	248	28	4.1	2.5	334	28	2.5	0.9	350
0.15 a.g. . .	28	7.9	5.6	290	28	15.8	10.0	015	26	8.7	2.2	310	26	8.5	3.1	298	26	7.8	5.2	322	28	15.2	7.6	341
0.3 a.m.s.1. . .									26	9.5	2.5	326	26	8.5	3.2	298	26	8.5	5.6	315	28	15.0	8.0	339
0.6 . . .	28	7.5	5.5	287	28	15.6	9.7	016	26	12.3	5.1	328	27	10.1	5.3	299	26	10.5	6.8	311	28	15.4	8.8	330
0.9 . . .	28	9.0	6.7	289	28	13.3	8.0	001	26	13.9	7.1	316	27	13.8	7.8	294	26	12.7	8.0	301	28	15.0	8.4	308
1.5 . . .	28	9.0	6.6	279	28	9.4	5.9	282	25	16.2	12.3	290	28	17.8	12.8	287	25	15.3	12.4	276	27	17.1	14.4	283
2.1 . . .	28	10.4	8.5	268	27	12.0	10.1	251	25	21.4	18.0	278	27	22.5	20.0	281	24	20.1	17.1	274	22	20.5	17.7	270
3.0 . . .	28	19.6	17.2	263	25	20.2	17.7	252	22	25.5	23.6	266	26	31.8	30.0	273	23	26.2	23.7	268	14	24.0	22.8	260
3.6 . . .	27	26.0	24.5	266	15	23.7	19.4	261	22	29.5	27.4	265	25	34.6	32.2	275	23	31.4	29.4	266	5	26.2	21.5	266
4.5 . . .	26	36.1	35.1	268	2	30.0	29.8	270	21	37.4	35.9	266	23	44.5	42.0	274	23	40.1	37.8	265				
5.4 . . .	21	45.4	44.5	271					20	48.4	47.5	267	20	53.2	51.1	273	23	49.3	48.3	268				
6.0 . . .	15	48.1	46.0	275					20	56.9	56.1	268	14	58.4	56.5	273	23	56.4	55.4	269				
7.2 . . .	5	61.2	60.4	279					20	75.9	74.5	270	6	68.6	68.3	270	19	72.3	71.0	267				
9.0 . . .									13	104.2	102.7	270	1	101.0	101.0	290	14	94.8	92.9	268				
Station	BANGALORE								BAREILLY								BEGUMPET							
Time in I.S.T.	0530				1730				2330				0530				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . . .	28	6.5	4.4	123	28	5.2	3.2	092	28	7.1	6.4	108	28	6.1	3.4	322	28	5.6	4.0	299	28	1.0	0.2	277
0.15 a.g. . .	27	13.7	10.0	134	28	6.3	3.2	089	28	16.3	15.4	115	28	14.1	9.8	318	28	9.7	7.4	297	28	9.7	5.4	157
0.3 a.m.s.1. . .													28	13.7	9.4	320	28	9.6	7.5	299				
0.6 . . .													28	15.4	12.4	314	28	12.7	9.8	297	28	6.3	3.5	150
0.9 . . .													28	15.7	13.1	307	28	13.1	10.4	297	28	12.1	5.1	165
1.5 . . .	27	12.4	4.7	142	28	5.9	2.8	089	27	14.6	10.6	125	28	14.3	11.5	304	28	14.2	11.9	299	28	9.0	2.0	215
2.1 . . .	27	8.2	1.8	030	28	6.5	2.5	072	27	8.2	1.9	330	26	16.0	12.4	298	28	15.9	13.9	291	28	9.2	4.7	244
3.0 . . .	27	7.3	4.6	305	28	6.3	2.6	293	25	9.5	7.1	297	17	15.3	13.9	278	26	17.4	14.1	278	28	10.9	6.6	253
3.6 . . .	26	9.4	5.8	264	27	9.0	6.0	280	21	10.7	6.6	296	14	18.8	18.2	272	25	19.0	17.0	281	28	15.3	8.5	265
4.5 . . .	18	8.2	5.1	241	23	10.0	4.8	289	19	8.9	0.6	228	4	15.7	15.7	268	22	25.0	23.9	281	25	16.8	12.8	265
5.4 . . .	14	10.5	3.4	240	22	11.9	2.6	300	16	8.4	2.3	113	1	18.0	18.0	265	18	33.3	32.7	272	19	18.3	12.0	260
6.0 . . .	13	10.1	3.8	292	22	12.7	1.2	228	14	9.5	1.8	151	1	31.0	31.0	260	14	43.5	42.8	269	13	18.4	9.8	296
7.2 . . .	7	12.3	4.5	309	20	15.8	4.4	018	9	12.8	3.9	139					8	49.0	48.5	273	1	35.0	35.0	325
9.0 . . .	1	32.0	32.0	270	17	14.9	7.9	264	1	12.0	12.0	240					2	43.0	42.9	263				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

February 1958 (Magha 12—Phalguna 9, 1879 Saka)

Station	BEGUMPET								BHAGALPUR								BHUBANESHWAR							
	1730				2330				0530				1730				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . . .	28	3.8	2.0	178	28	2.7	2.5	120	28	3.0	1.1	227	28	4.2	2.1	290	28	3.5	0.4	169	28	1.6	8.1	167
0.15 a.g. . . .	28	7.9	3.1	167	28	11.6	9.7	125	28	9.1	4.0	300	28	11.5	7.2	289	27	11.1	7.1	220	26	12.9	10.0	179
0.3 a.m.s.l. . . .									28	10.0	4.1	300	28	11.7	7.7	290	27	11.0	8.8	220	26	13.5	10.2	180
0.6 „ . . .	28	7.3	2.8	167	28	7.6	6.5	114	28	11.7	6.6	363	28	12.0	9.2	283	27	10.0	7.7	227	26	11.8	7.3	196
0.9 „ . . .	28	7.4	2.5	172	28	12.0	9.7	140	27	12.9	9.7	294	28	13.5	11.0	275	25	8.7	6.4	250	25	9.9	5.2	217
1.5 „ . . .	28	7.7	3.3	199	28	9.2	4.3	198	26	17.8	15.0	288	26	16.6	14.8	272	24	10.7	9.3	291	23	10.7	7.1	289
2.1 „ . . .	28	8.3	4.5	231	28	9.4	6.8	267	17	18.5	17.7	283	23	21.5	20.5	280	21	13.2	11.8	297	22	13.9	11.8	304
3.0 „ . . .	27	11.4	8.9	260	28	12.9	11.7	280	6	24.3	19.9	295	21	29.1	28.2	285	19	16.8	15.1	289	19	21.6	20.2	302
3.6 „ . . .	27	15.0	13.8	274	18	18.9	17.7	279	3	29.3	29.3	295	17	34.4	33.0	287	12	20.1	18.1	287	18	26.2	22.2	291
4.5 „ . . .	23	20.5	19.2	272	4	18.3	17.7	283					13	42.8	39.2	283	5	26.6	24.5	287	14	30.3	29.8	282
5.4 „ . . .	21	23.5	22.0	274	1	22.0	22.0	230					5	60.8	60.0	279	2	34.6	33.6	293	12	34.3	33.6	281
6.0 „ . . .	18	24.5	23.3	276									2	65.0	63.5	277					10	39.2	36.0	281
7.2 „ . . .	17	26.4	24.9	280									1	63.0	63.0	270					2	50.0	49.9	281
9.0 „ . . .	12	28.6	26.0	285																				
Station.	BHUBANESHWAR				BHUJ								BIKANER											
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . . .	28	5.1	3.2	179	28	1.6	0.9	270	28	5.2	3.7	317	28	2.7	2.1	272	28	1.5	0.7	045	28	1.3	0.3	320
0.15 a.g. . . .	27	12.4	10.1	197	28	13.3	9.5	330	28	8.4	5.9	329	28	12.0	9.3	306	28	11.5	7.8	087	28	5.4	2.9	314
0.3 a.m.s.l. . . .	27	12.8	11.5	202	28	13.8	9.0	336	28	8.4	5.9	327	28	12.5	9.9	315	28	10.5	6.9	096	28	5.5	3.3	317
1.6 „ . . .	26	12.2	10.0	218	28	15.8	9.8	347	28	8.6	6.1	316	28	13.0	10.1	324	28	10.0	5.0	070	28	5.5	1.9	296
0.9 „ . . .	24	10.2	6.8	243	27	12.4	7.0	356	28	9.2	6.4	316	28	11.5	8.9	337	28	8.4	2.8	355	28	6.0	2.4	296
1.5 „ . . .	22	9.7	7.7	292	27	13.3	6.2	321	28	8.7	6.0	300	28	10.7	5.4	332	28	10.1	7.0	307	28	6.2	2.9	288
2.1 „ . . .	20	15.1	13.9	299	27	12.3	7.5	287	28	11.9	8.8	287	28	12.6	7.0	290	28	13.3	10.8	285	28	8.9	5.9	276
3.0 „ . . .	18	20.3	19.8	290	27	15.6	13.3	279	28	18.5	16.4	281	28	17.9	14.4	281	26	16.3	14.8	276	27	15.9	13.7	270
3.6 „ . . .	2	20.0	19.7	295					28	23.4	22.5	277	10	17.0	13.2	285	9	43.3	40.7	271	26	21.3	19.7	277
4.5 „ . . .	1	3.0	30.0	275					27	33.3	32.4	272	2	28.5	26.5	268	5	20.4	20.1	267	23	30.1	20.9	276
5.4 „ . . .									27	44.9	43.6	271					2	33.0	32.7	280	17	37.5	37.2	278
6.0 „ . . .									25	48.6	47.5	272					1	73.0	70.0	280	9	41.3	40.7	276
7.2 „ . . .									14	64.7	64.1	271									3	60.3	59.7	269
9.0 „ . . .																					1	57.0	57.0	275

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

February 1958 (Magha 12—Phalgun 9, 1879 Saka)

Station	BIKANER				CHIKALTHANA								COCHIN												
	2330				0530				1730				2330				0530				1730				
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Ht. in Km.																									
Surface . .	28	2.6	1.9	008	28	4.2	3.8	281	28	5.7	5.1	264	28	4.5	3.6	293	28	2.6	1.6	050	28	8.3	7.2	293	
0.15 a. g. . .	28	12.6	10.2	035	28	10.8	6.6	354	28	9.7	8.2	268	28	13.9	9.7	334	24	6.2	4.2	036	28	10.5	9.6	284	
0.3 a. m.s. 1. . .	28	10.8	9.0	033													24	6.1	4.8	003	28	11.1	10.2	284	
0.6 . . . , , .	28	12.0	8.7	031													24	5.9	4.1	342	28	7.6	6.5	291	
0.9 . . . , , .	28	9.5	4.9	020	28	12.0	7.6	355	28	7.8	6.8	262	28	14.3	11.0	337	24	5.1	2.2	005	28	5.7	3.9	355	
1.5 . . . , , .	28	6.9	2.7	281	28	9.0	4.6	292	28	8.5	6.7	259	28	8.3	5.2	300	24	6.4	3.5	068	28	8.9	7.5	054	
2.1 . . . , , .	28	9.9	6.9	236	28	11.4	10.2	223	28	8.8	6.9	261	28	8.3	7.0	231	23	7.7	3.9	064	28	10.9	9.4	070	
3.0 . . . , , .	27	16.6	14.4	269	28	17.2	15.2	235	28	14.5	12.3	256	28	13.9	12.0	224	23	7.9	1.1	288	28	8.7	4.7	052	
3.6 . . . , , .	22	21.2	20.2	263	21	21.3	19.5	253	28	20.6	18.9	266	13	16.6	14.3	257	21	6.9	1.0	248	25	7.7	3.6	020	
4.5 . . . , , .	5	20.0	17.9	273	4	24.3	19.0	275	27	26.0	25.2	265	1	11.0	11.0	220	17	7.9	1.4	104	21	8.0	3.3	086	
5.4 . . . , , .	3	32.0	31.5	262					27	33.1	32.1	270					8	12.4	5.6	078	18	9.8	7.4	093	
6.0 . . . , , .	1	23.0	23.0	255					25	37.2	35.9	272					3	17.7	9.6	046	15	13.4	10.1	102	
7.2 . . . , , .									8	39.4	38.7	270					1	21.0	21.0	080	6	13.3	9.6	084	
9.0 . . . , , .									1	55.0	55.0	305													
Station	COCHIN				DARJEELING								DUM DUM				DUM DUM				1730*				
Time in I. S. T.	2330				0830				1730				0530*				1130				1730*				
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Surface . .	28	1.3	0.4	048	28	1.7	0.8	257	28	4.1	3.8	238	28	2.5	1.3	245	28	4.5	1.9	260	28	3.1	1.1	199	
0.15 a. g. . .	22	4.6	3.9	340	10	3.5	1.9	149	8	8.0	6.5	245	28	10.1	5.0	265	28	7.5	3.9	264	28	7.2	3.5	250	
0.3 a. m.s. 1. . .	22	5.2	4.7	332									28	10.7	6.1	168	28	6.1	5.0	258	28	7.7	4.2	249	
0.6 . . . , , .	22	5.3	4.9	322									28	10.8	7.3	269	28	6.3	6.0	258	28	9.4	6.3	267	
0.9 . . . , , .	22	5.1	2.7	335									28	11.9	8.8	271	28	9.1	7.4	272	28	8.6	7.0	276	
1.5 . . . , , .	22	5.4	2.6	050									28	12.6	11.0	275	25	15.0	13.6	284	28	12.3	11.5	290	
2.1 . . . , , .	18	7.8	5.0	072									28	17.1	4.0	292	24	22.5	20.6	289	28	18.2	17.3	295	
3.0 . . . , , .	14	8.4	5.1	076	10	10.2	9.3	278	8	10.7	10.2	283	28	22.9	22.0	290	22	28.5	27.8	289	28	27.1	25.7	294	
3.6 . . . , , .	7	10.4	7.0	059	9	19.5	18.8	277	7	14.7	14.4	280					20	32.1	31.5	288					
4.5 . . . , , .	2	7.5	5.5	079	3	23.0	22.7	284	2	25.0	24.9	267	28	35.6	34.5	284	18	40.7	39.7	285	27	35.7	34.8	283	
5.4 . . . , , .					2	35.0	34.9	293	1	36.0	36.0	275	28	43.0	41.7	283	12	49.3	47.9	285	27	44.8	44.0	282	
6.0 . . . , , .					1	18.0	18.0	300	1	35.0	35.0	270	28	49.0	48.0	282	8	50.1	49.0	283	27	50.8	50.1	282	
7.2 . . . , , .													28	60.0	58.2	283					27	61.0	60.0	284	
9.0 . . . , , .													28	62.7	57.5	281					27	66.6	65.2	283	

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

February 1958 (Magha 12—Phalguna 9, 1879 Saka)

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS.

Winds upto 9·0 Km. above mean sea level

February 1958 (Magha 12—Phalgun 9, 1879 Saka)

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9·0 Km. above mean sea level

February 1958 (Magha 12—Phalguna 9, 1879 Saka)

Station	IMPHAL				JABALPUR								JAGDALPUR											
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . . .	28	1·7	0·7	307	28	2·3	0·3	153	28	3·1	1·3	346	28	2·5	1·1	057	28	1·3	1·0	179	28	3·1	2·0	232
0·15 a. g. . .	28	5·0	2·5	220	29	10·7	4·7	671	28	7·5	3·1	333	28	13·6	5·9	041	28	9·7	6·5	188	28	7·9	4·9	234
0·3 a. m. s. 1. . .																								
0·6 . , . . .					28	11·5	5·1	070	28	7·5	3·7	325	28	14·2	6·3	039	28	6·9	5·0	186	28	5·7	3·5	235
0·9 . , . . .	28	4·4	1·9	212	28	12·7	4·4	066	28	8·7	5·3	301	28	13·8	5·7	013	28	11·0	7·2	201	28	9·0	5·9	234
1·5 . , . . .	28	10·1	8·9	257	28	13·9	7·7	282	28	10·2	8·1	283	28	10·7	7·1	287	28	9·4	6·5	250	28	8·1	5·6	264
2·1 . , . . .	27	17·6	16·8	254	28	16·6	13·8	268	28	14·3	12·2	277	28	14·4	12·5	258	28	11·7	9·3	283	28	8·7	6·8	288
3·0 . , . . .	18	24·1	22·9	266	26	24·5	22·0	259	28	23·6	22·0	265	27	23·7	20·4	257	27	16·0	14·3	291	27	12·4	10·3	282
3·6 . , . . .	8	32·0	31·8	263	26	30·2	27·8	264	26	30·2	29·0	271	22	28·5	25·8	263	23	18·2	17·0	285	23	16·7	15·6	289
4·5 . , . . .	2	30·5	30·5	280	21	32·7	28·6	266	21	38·5	37·7	275	4	32·3	32·1	271	13	21·8	19·5	279	19	25·2	24·2	278
5·4 . , . . .					7	31·1	27·4	281	20	46·5	45·9	275	1	29·0	29·0	260	2	19·5	18·6	294	15	30·0	28·2	279
6·0 . , . . .					2	39·0	38·8	294	20	50·7	49·6	278	1	31·0	31·0	260	1	22·0	22·0	310	11	32·5	31·1	280
7·2 . , . . .									5	51·0	50·7	277									4	27·5	26·7	282
9·0 . , . . .																					1	41·0	41·0	300

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9·0 Km. above mean sea level.

February 1958 (Magha 12—Phalgun 9, 1879 Saka)

Station	JHARSUGUDA								JODHPUR															
	1730				2330				0530*				1130				1730*				2330			
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . . .	28	4·4	1·7	231	28	3·3	1·5	028	27	6·0	5·0	040	28	5·0	1·5	106	28	5·5	2·7	297	28	4·8	3·4	015
0·15 a. g. . .	27	7·7	3·5	234	27	9·5	0·6	070	27	7·1	5·4	043	28	6·2	1·7	094	26	5·9	2·8	299	28	14·9	7·5	015
0·3 a. m. s. l. .	27	7·2	3·3	234	27	8·5	2·3	046	27	6·9	5·4	043	28	5·4	1·6	090	26	5·8	2·7	293	28	12·1	6·2	020
0·6 ,; . .	27	8·3	4·5	250	27	10·4	1·7	247	27	8·2	4·9	046	28	7·4	1·3	115	26	6·3	3·0	295	28	13·9	7·1	013
0·9 ,; . .	27	8·0	5·0	254	27	9·6	3·4	259	27	9·0	3·5	043	28	8·1	0·4	152	26	6·7	2·7	290	28	11·3	5·5	358
1·5 ,; . .	26	9·9	8·3	276	27	11·3	8·6	271	27	8·9	4·0	279	28	8·9	2·7	280	26	7·6	3·8	273	28	8·3	2·7	284
2·1 ,; . .	24	16·4	14·3	286	25	16·6	14·5	274	27	11·8	8·4	270	28	10·3	6·2	269	26	8·9	5·4	273	26	9·4	5·2	263
3·0 ,; . .	21	25·9	23·9	287	20	23·2	22·1	290	27	16·2	14·4	270	28	15·0	12·7	264	26	15·4	14·8	270	26	13·8	12·1	263
3·6 ,; . .	21	28·3	28·0	285	10	27·6	27·3	287	27	23·1	21·8	265	28	20·5	19·2	269	26	22·8	21·7	269	7	20·0	18·5	260
4·5 ,; . .	20	37·0	36·7	281					26	35·1	34·1	265	27	33·0	32·3	269	26	35·4	32·1	270	2	23·0	23·0	266
5·4 ,; . .	14	45·9	45·4	278					26	48·6	48·1	265	24	41·7	40·5	273	25	46·7	45·2	270				
6·0 ,; . .	6	48·3	48·1	280					25	56·6	56·2	265	24	50·6	49·2	270	25	55·9	54·7	269				
7·2 ,; . .									24	74·3	69·2	266	18	66·9	65·8	272	23	72·3	71·0	264				
9·0 ,; . .									17	94·7	92·9	267	3	77·3	77·3	271	14	92·0	91·1	262				

Station	MADRAS								MANGALORE															
	0530*				1130				1730*				2330				0530				1730			
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . . .	28	4·9	1·6	186	28	5·3	3·4	109	28	9·0	7·6	105	28	3·6	2·7	114	28	5·1	4·2	058	28	11·2	10·3	301
0·15 a. g. . .	28	8·4	4·5	145	28	7·5	4·8	122	28	11·4	9·6	110	28	12·3	10·6	118	28	8·4	7·8	010	28	10·9	10·1	302
0·3 a. m. s. l. .	28	9·0	5·4	135	28	7·4	4·4	134	28	10·9	8·4	107	28	12·7	10·7	117	28	8·5	8·1	350	28	11·1	10·1	302
0·6 ,; . .	28	9·4	6·2	125	28	7·1	4·1	116	28	10·4	7·3	095	28	12·0	10·0	110	28	8·7	7·6	338	28	8·7	7·3	297
0·9 ,; . .	28	9·7	6·8	113	28	8·1	3·5	100	28	9·8	6·1	082	28	11·3	8·8	092	28	9·4	6·6	327	28	6·2	3·0	295
1·5 ,; . .	28	11·9	7·3	058	24	11·5	6·3	053	28	10·6	6·8	036	28	10·9	7·0	046	28	8·6	1·6	183	28	7·1	4·2	106
2·1 ,; . .	28	11·2	7·7	003	24	11·2	6·7	022	28	10·8	8·0	002	28	10·7	7·5	351	28	10·0	7·4	134	28	9·8	6·1	097
3·0 ,; . .	28	10·4	7·4	305	24	6·7	2·6	283	28	9·8	5·7	300	28	10·3	8·2	302	27	8·0	2·3	227	28	9·2	2·8	298
3·6 ,; . .	28	9·5	5·8	282	23	8·1	4·3	250	28	9·9	6·9	084	24	10·3	6·7	285	23	11·2	6·1	237	28	9·7	5·3	284
4·5 ,; . .	27	9·1	4·3	258	23	8·9	4·8	256	28	10·6	7·1	271	19	8·6	2·4	277	7	16·0	11·1	266	28	9·8	4·0	282
5·4 ,; . .	27	10·4	3·9	266	23	10·6	2·3	290	28	11·5	5·3	280	15	9·5	2·9	249	1	19·0	19·0	290	28	10·8	2·9	277
6·0 ,; . .	27	11·5	4·0	272	22	11·4	2·5	279	28	11·7	4·5	276	5	8·2	4·8	164	1	19·0	19·0	280	28	12·2	2·9	254
7·2 ,; . .	26	15·5	5·0	328	21	13·0	2·7	322	27	14·1	6·3	307	1	11·0	11·0	265					27	14·5	2·8	291
9·0 ,; . .	24	19·1	8·9	278	16	13·1	4·2	293	25	16·4	7·4	282									23	17·0	8·9	288

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9·0 Km. above mean sea level

February 1958 (Magha 12—Phalgun 9, 1879 Saka)

Station	MANGALORE				MINICOY								MOHANBARI											
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . . .	28	4·9	4·7	356	28	3·5	2·6	014	28	4·6	4·0	017	28	3·0	2·7	016	28	0·5	0·5	045	28	2·0	1·4	040
0·15 a.g. . . .	28	11·6	11·3	336	28	7·9	6·4	013	28	8·7	8·2	020	28	8·4	7·7	019	25	8·2	7·9	(5)	26	8·4	7·5	053
0·3 a.m. s. 1 . . .	28	12·6	12·3	335	28	7·6	6·1	018	28	9·2	8·6	020	28	8·3	7·8	020	25	8·8	8·2	018	26	8·5	7·7	053
0·6	28	11·2	10·9	324	28	6·4	4·9	038	28	9·5	8·7	024	28	7·9	7·0	033	25	8·1	7·8	046	26	8·3	7·4	063
0·9	28	8·3	7·3	308	28	6·3	4·3	077	28	8·3	6·4	050	28	7·2	5·5	062	25	7·9	5·7	(58)	26	6·9	6·2	075
1·5	28	7·2	1·0	151	28	9·2	6·8	102	27	7·3	5·6	088	26	8·5	6·4	098	24	5·7	1·3	172	26	5·5	1·4	220
2·1	28	10·5	7·3	102	23	8·9	5·8	1·6	24	6·3	3·3	108	25	8·6	5·2	092	22	8·1	5·3	215	20	10·6	9·7	221
3·0	28	7·5	2·2	088	17	9·0	1·1	128	23	8·1	1·6	023	23	9·1	3·5	065	16	11·4	7·9	240	12	14·5	12·4	223
3·6	20	8·8	4·2	272	9	8·7	3·1	100	22	8·5	2·5	015	18	7·7	4·0	040	8	11·9	6·9	265	5	10·8	9·7	222
4·5	19	10·7	8·3	270	8	10·9	7·5	110	20	8·5	3·3	066	9	8·8	6·3	077	2	41·5	41·0	258	2	11·5	11·5	259
5·4	12	12·3	8·0	250	2	10·5	9·4	128	20	11·9	9·2	083	1	9·0	9·0	085	2	55·5	55·2	255				
6·0	11	13·0	6·2	261	2	5·5	5·5	072	19	14·3	13·5	104												
7·2	2	19·0	18·2	256	1	7·0	7·0	040	13	15·2	13·2	102												
9·0									7	13·4	6·5	060												
Station	MOHANBARI				MUSSOORIE								NAGPUR											
Time in I.S.T.	2330				0530				1730				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . . .	28	0·7	0·7	041	28	2·8	0·9	012	28	4·2	2·2	237	28	2·7	2·1	011	28	5·4	1·4	223	28	6·1	3·6	253
0·15 a.g. . . .	22	8·5	7·8	039	26	7·2	1·7	001	27	6·6	3·9	209	28	5·2	2·3	022	28	7·6	2·6	223	28	6·7	3·9	254
0·3 a.m. s. 1 . . .	22	8·4	7·6	040																				
0·6	22	8·1	7·8	052													28	6·8	2·0	042	27	7·7	2·0	192
0·9	22	6·1	5·7	073													28	9·5	1·6	224	28	7·7	4·9	246
1·5	22	5·3	2·3	162													28	11·5	6·1	255	28	10·6	7·4	250
2·1	17	8·5	6·5	223	26	5·3	1·1	340	27	11·1	7·7	234	28	14·6	11·4	251	28	16·4	13·9	252	28	11·4	9·0	251
3·0	11	12·5	12·0	227	26	8·5	1·2	235	27	8·5	2·1	270	28	20·1	18·4	263	27	22·6	20·1	260	28	18·3	16·7	250
3·6	3	11·7	11·7	244	25	10·3	3·8	287	26	10·9	0·5	318	28	24·2	23·1	265	27	27·8	26·3	265	28	23·6	22·6	253
4·5					23	19·3	15·2	290	23	12·5	6·4	281	28	30·6	29·0	270	25	32·2	31·5	272	28	30·6	30·2	252
5·4					19	33·6	31·5	273	20	20·8	18·9	275	28	36·8	35·9	270	25	40·4	39·7	273	28	36·3	35·6	268
6·0					13	46·2	44·6	272	16	30·3	28·3	275	28	40·6	39·7	270	24	45·7	44·7	272	28	40·3	39·3	268
7·2					3	46·0	45·9	265	10	68·2	66·2	273	27	46·4	45·0	269	11	55·5	53·5	273	28	48·4	47·6	269
9·0					1	21·0	21·0	265	2	126·0	126·0	269	23	52·9	51·9	269	3	58·7	54·5	272	25	55·4	54·9	271

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9·0 Km. above mean sea level

February 1958 (Magha 12—Phalgun 9, 1879 Saka.)

Station	NAGPUR				NANPARA				NEW DELHI															
Time in I.S.T.	2330				0530				1730				0530*				1130				1730*			
Ht. in Km.	n	v	v	D	n	v	v	D	n	v	v	D	n	v	v	D	n	v	v	D	n	v	v	D
Surface . .	28	6·1	2·7	08	28	4·3	2·3	301	28	3·4	2·8	281	28	5·5	4·6	331	28	8·1	5·4	310	28	6·4	5·0	328
0·15 a. g. .	28	13·5	3·2	065	27	14·3	6·8	318	28	9·4	6·7	292	27	13·5	8·5	350	28	9·9	6·3	315	28	10·9	8·5	323
0·3 a. m. s. l. .					27	14·5	7·1	325	28	9·6	6·7	292	27	11·9	7·7	318	28	9·4	6·2	320	28	10·4	7·9	325
0·6 , , .	28	13·7	1·8	075	27	16·5	10·0	319	28	10·3	7·6	290	27	13·2	7·8	342	28	11·5	7·0	317	28	10·4	8·4	322
0·9 , , .	28	10·6	1·2	281	27	16·4	10·5	318	28	10·9	7·8	293	27	13·2	7·8	330	28	12·8	8·8	310	28	10·4	8·6	319
1·5 , , .	28	10·9	8·3	270	26	17·8	12·9	303	27	13·9	12·3	295	27	16·0	14·3	394	28	15·5	11·2	304	28	12·1	9·7	307
2·1 , , .	28	13·3	12·0	255	23	18·4	15·1	302	27	15·5	13·4	292	27	17·4	14·2	292	28	16·4	11·8	291	28	15·3	12·3	292
3·0 , , .	26	19·5	18·0	264	9	15·3	11·7	279	16	16·6	13·6	285	27	18·0	16·1	287	28	17·8	14·0	281	28	17·9	15·2	283
3·6 , , .	11	24·1	22·7	279	4	20·0	19·5	282	13	18·1	15·4	285	27	19·9	18·5	281	27	20·2	17·0	176	28	20·8	18·3	278
4·5 , , .					1	36·0	36·0	290	9	22·2	20·0	284	27	26·9	26·0	276	27	28·8	25·6	274	28	27·1	25·4	276
5·4 , , .									6	26·8	26·1	280	27	37·1	35·8	272	24	37·8	36·3	270	28	39·2	38·1	271
6·0 , , .									5	36·6	35·0	272	27	46·5	45·1	273	22	45·3	42·7	273	28	48·5	47·5	273
7·2 , , .									5	39·2	38·5	275	27	64·4	63·0	273	17	65·7	63·2	271	28	68·3	67·1	275
9·0 , , .													24	86·3	85·0	273	9	70·9	69·6	271	20	87·7	86·0	275
Station	NEW DELHI				POONA								PORT BLAIR											
Time in I.S.T.	2330				0530				1730				2330				0530*				1130			
Ht. in Km.	n	v	v	D	n	v	v	D	n	v	v	D	n	v	v	D	n	v	v	D	n	v	v	D
Surface . .	28	4·9	3·3	311	28	1·1	0·7	206	28	3·9	3·2	267	28	1·7	1·4	253	28	2·8	2·4	028	28	5·3	5·0	051
0·15 a. g. .	28	13·9	10·5	347	28	6·4	4·7	286	28	8·5	7·1	276	28	7·6	7·1	279	28	9·1	8·5	043	28	7·5	7·0	054
0·3 a. m. s. l. .	28	12·3	8·4	344												28	9·6	9·0	047	28	7·9	7·3	055	
0·6 , , .	28	13·5	9·1	338	28	4·0	3·5	239	28	6·4	5·3	277	28	4·9	4·5	262	28	9·4	8·0	065	28	8·0	6·9	062
0·9 , , .	28	12·4	9·0	317	28	8·0	5·1	302	28	8·7	7·5	272	28	9·3	8·3	284	28	9·3	7·0	076	28	7·7	5·6	076
1·5 , , .	28	14·2	11·5	293	28	11·7	3·4	263	28	8·0	6·4	253	28	10·2	7·1	247	28	8·4	3·9	123	27	7·4	3·3	122
2·1 , , .	28	15·5	13·5	283	28	11·1	7·1	203	28	9·5	7·5	229	28	10·4	6·2	198	28	7·3	3·3	175	25	6·6	2·4	167
3·0 , , .	24	16·2	15·0	281	28	14·7	11·6	233	28	12·8	10·8	249	28	11·5	7·6	224	28	7·2	1·5	291	21	5·0	1·2	301
3·6 , , .	19	19·4	18·5	270	25	19·4	12·8	257	28	16·6	15·3	268	23	13·3	12·4	255	28	6·6	3·0	309	19	5·3	2·1	339
4·5 , , .	4	20·5	20·0	266	3	20·7	20·7	257	28	22·4	21·1	270	11	20·4	19·8	262	28	8·4	2·7	304	17	6·9	2·3	358
5·4 , , .	1	17·0	17·0	265					26	27·9	26·8	271	1	25·0	25·0	275	26	12·0	4·9	322	15	8·2	3·2	008
6·0 , , .	1	31·0	31·0	265					24	30·7	29·6	268	1	29·0	29·0	275	25	10·9	4·3	340	15	9·1	2·0	028
7·2 , , .									20	37·5	35·1	270					24	14·1	8·7	004	13	7·1	3·3	035
9·0 , , .									7	36·3	35·1	275					21	12·8	5·9	335	5	11·0	3·1	275

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9·0 Km. above mean sea level

February 1958 (Magha 12—Phalgun 9, 1879 Saka)

Station	PORT BLAIR								RAIPUR								RAXAUL							
	1730*				2330				0530				1730				2330							
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D				
Surface . .	28	5·1	4·9	047	28	4·7	4·0	047	28	3·3	1·2	016	28	3·4	1·7	275	28	5·4	0·8	108				
0·15 a.g. . .	28	10·9	10·5	055	23	8·7	8·0	043	28	11·0	3·6	047	28	6·5	2·8	264	28	13·7	1·6	104				
0·3 a.s.l. . .	28	10·5	9·9	(55)	28	8·9	8·2	047												28 11·9 0·9 194				
0·6 . , .	28	9·2	8·1	052	28	8·4	7·7	054	28	12·3	2·3	044	28	7·0	3·0	265	28	13·8	0·7	146				
0·9 . , .	28	7·7	5·3	(54)	28	7·0	6·2	(66)	27	12·4	2·5	257	28	7·0	5·0	256	28	10·5	3·7	240				
1·5 . , .	28	7·3	2·0	(67)	25	6·6	2·3	103	27	11·6	8·1	264	27	10·3	8·6	254	28	11·3	9·4	253				
2·1 . , .	28	7·9	1·7	24)	21	5·8	2·2	197	26	14·3	12·5	275	27	16·0	13·7	265	28	14·3	12·2	263				
3·0 . , .	28	7·2	2·5	284	18	6·6	1·5	277	19	18·1	15·3	283	27	22·3	2·2	269	27	18·5	17·3	263				
3·6 . , .	28	8·7	3·8	297	15	5·5	1·5	331	13	21·3	18·3	275	26	26·2	24·4	277	16	19·7	18·1	274				
4·5 . , .	28	9·4	3·9	315	9	8·6	2·8	002	2	2·0	19·9	309	21	31·6	30·4	274	2	2·6	25·3	288				
5·4 . , .	28	10·3	3·2	334	1	13·0	13·0	050					17	36·8	34·8	276				5 30·2 29·8 274				
6·0 . , .	28	11·9	2·3	016									17	38·3	36·0	277								
7·2 . , .	27	11·7	3·6	359									3	48·7	47·2	276								
9·0 . , .	25	13·7	6·1	320																				
Station	RAXAUL				SANTA CRUZ								TEZPUR											
Time in I.S.T.	1730				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n			
Surface . .	28	1·4	0·6	265	28	4·9	3·7	(28)	28	3·7	1·0	338	28	9·7	8·3	316	28	1·1	0·9	353	28	2·4	2·2	050
0·15 a.g. . .	28	9·9	4·5	256	28	11·4	8·8	004	28	5·1	1·8	006	27	14·8	12·4	326	28	8·4	5·9	337	28	11·6	10·8	080
0·3 a.m.s.l. . .	28	9·2	4·9	261	28	11·1	8·5	003	28	5·2	1·8	(35)	27	13·7	10·7	323	28	9·4	6·1	336	28	12·2	11·4	084
0·6 . , .	28	9·8	6·1	262	28	10·4	7·7	357	28	5·4	2·8	019	27	11·3	6·7	315	28	9·1	6·7	337	28	9·5	8·3	094
0·9 . , .	28	11·1	7·1	261	28	9·5	6·5	347	28	6·1	3·0	008	27	8·8	4·0	300	28	7·5	3·7	329	26	7·2	2·9	135
1·5 . , .	28	11·5	7·8	281	28	9·0	3·8	286	28	10·3	3·8	244	27	8·8	3·7	231	28	7·7	3·4	248	21	8·9	5·8	256
2·1 . , .	28	13·9	10·8	291	28	11·6	5·8	230	28	14·3	11·3	218	27	10·6	7·4	225	28	10·2	6·3	29	14	10·2	6·7	261
3·0 . , .	28	23·4	21·9	288	28	13·9	12·6	242	28	14·2	13·1	246	27	12·4	10·5	253	28	11·2	10·2	257	9	13·7	10·9	271
3·6 . , .	14	29·9	29·6	277	28	17·7	15·5	253	27	17·4	15·9	262	27	16·6	14·8	261	22	16·5	15·8	266	5	24·6	24·3	275
4·5 . , .	2	36·0	35·6	280	28	22·4	21·4	267	27	23·9	23·1	265	27	22·7	21·6	267	15	21·9	21·4	263	2	18·5	14·9	273
5·4 . , .					28	29·5	28·6	268	26	28·2	26·1	267	27	98·0	27·0	265	4	20·0	19·3	280	2	38·0	34·7	273
6·0 . , .					28	34·2	34·2	268	26	31·3	29·2	267	27	33·7	31·9	267	1	24·0	24·0	285	1	27·0	27·0	285
7·2 . , .					28	41·5	40·1	268	20	40·8	36·3	265	27	38·9	37·5	270								
9·0 . , .					25	52·6	51·4	270	13	48·6	46·1	271	26	49·0	48·0	264								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

February 1958 (Magha 12—Phalgun 9, 1879 Saka)

Station	TEZPUR								TIRUCHIRAPALLI								TRIVANDRUM							
	1730				2330				0530				1730				2330				0530*			
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Ht. in Km.																								
Surface . . .	28	3·1	2·6	065	28	4·3	3·8	080	28	1·8	1·5	046	28	5·0	4·6	091	28	6·2	5·2	098	28	2·3	1·6	018
0·15 a.g. . .	28	11·9	3·7	035	27	16·0	15·8	085	28	8·9	6·2	060	28	7·3	6·5	083	28	13·0	11·6	094	27	3·7	2·6	011
0·3 a.s.1. . .	28	14·9	9·4	074	27	16·0	15·6	087	28	9·6	6·7	071	28	7·6	6·9	081	28	14·0	12·5	094	27	4·1	2·6	010
0·6 . . . , ,	28	8·3	5·9	073	27	11·3	9·9	083	28	11·5	7·9	090	28	8·2	7·6	078	28	14·5	12·9	(90)	27	4·7	2·3	018
0·9 . . . , ,	28	6·2	0·3	027	26	7·5	2·8	125	28	11·3	7·3	084	28	8·2	7·3	076	28	11·5	9·6	081	27	5·0	2·2	039
1·5 . . . , ,	27	10·3	7·9	244	25	9·8	8·6	253	27	9·1	5·6	051	28	9·3	6·6	047	28	8·8	7·3	051	27	6·6	3·8	067
2·1 . . . , ,	24	18·0	13·9	240	20	13·7	12·2	250	27	9·5	5·0	026	28	10·4	6·9	008	28	10·6	6·9	003	27	7·7	4·4	058
3·0 . . . , ,	10	14·5	10·3	238	13	16·2	14·7	252	27	7·9	0·5	340	27	8·4	4·7	309	28	8·7	5·6	320	27	8·0	1·4	002
3·6 . . . , ,	5	16·4	9·8	280	4	21·7	20·3	260	26	7·6	1·2	180	27	8·1	3·6	311	19	7·6	2·5	340	27	8·5	2·2	094
4·5 . . . , ,	1	45·0	45·0	270	1	29·0	29·0	275	24	7·6	2·0	142	27	7·7	1·6	151	15	9·5	2·1	158	26	9·4	5·3	099
5·4 . . . , ,									17	10·7	7·5	097	26	10·2	5·3	093	9	13·7	11·9	094	26	13·4	11·4	093
6·0 . . . , ,									14	11·8	8·5	107	26	12·3	7·2	086	8	10·0	7·7	086	26	15·3	13·9	091
7·2 . . . , ,									2	10·5	10·1	058	19	15·5	9·3	078	1	19·0	19·0	105	25	18·8	16·2	083
9·0 . . . , ,									1	12·0	12·0	025	15	16·7	5·8	062					24	18·2	11·9	096

Station	TRIVANDRUM								UDAIPUR															
	1130				1730*				2330				0530				1730				2330			
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Ht. in Km.																								
Surface . . .	28	3·1	1·2	304	28	6·3	5·0	260	28	3·2	2·1	354	28	0·1	0·1	315	28	1·8	1·6	267	28	0·3	0·1	225
0·15 a.g. . .	28	4·0	2·3	260	28	6·3	4·9	265	28	5·8	3·9	325	28	5·7	2·7	356	28	5·3	1·6	258	28	6·8	4·1	341
0·3 a. s. 1. . .	28	3·6	1·7	248	28	6·3	4·5	271	28	5·7	4·3	312												
0·6 . . . , ,	28	3·6	1·3	316	28	6·4	3·0	300	28	6·1	4·2	314												
0·9 . . . , ,	28	4·0	2·1	022	28	6·5	2·1	010	27	6·0	2·7	013	28	7·8	3·1	113	28	5·5	1·9	263	28	8·1	4·6	345
1·5 . . . , ,	24	8·5	5·3	048	28	9·0	7·4	040	24	10·2	9·1	053	28	8·8	4·4	305	28	7·0	4·3	276	28	7·6	3·2	294
2·1 . . . , ,	15	9·9	5·5	042	28	9·3	7·7	043	21	9·9	7·4	058	28	11·0	9·3	258	28	9·6	7·8	265	28	9·5	6·0	241
3·0 . . . , ,	10	7·6	1·7	360	28	6·8	2·8	020	20	6·3	3·6	049	28	17·8	16·5	261	28	15·7	13·9	261	27	16·5	13·9	260
3·6 . . . , ,	9	9·3	3·2	042	28	7·3	3·0	040	15	8·2	3·9	058	23	24·7	23·3	266	28	23·9	22·5	267	22	25·3	22·8	262
4·5 . . . , ,	5	13·8	11·3	073	28	9·1	5·0	095	10	10·3	7·9	097	9	37·4	37·2	269	27	34·3	32·2	269	11	36·0	35·3	265
5·4 . . . , ,	3	13·7	13·5	079	28	12·9	10·2	102	5	13·4	10·9	100					26	43·9	42·8	266	1	36·0	36·0	255
6·0 . . . , ,	3	16·0	15·9	081	28	15·1	10·8	098	5	15·8	13·2	098					24	49·5	48·0	267				
7·2 . . . , ,	1	28·0	28·0	080	28	17·6	13·5	088	2	15·5	6·9	079					18	67·3	66·8	268				
9·0 . . . , ,	1	13·0	13·0	110	26	16·1	7·1	116									3	58·7	57·8	263				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

February 1958 (Magha 12—Phalgun 9, 1879 Saka)

Station	VENGURLA								VERAVAL											
	0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . . .	28	1·6	1·6	357	28	6·1	5·5	272	28	1·0	1·0	355	28	7·3	7·0	005	28	7·8	4·1	338
0·15 a. g. . .	28	10·2	10·0	003	28	9·1	8·5	294	28	9·4	9·2	354	27	18·6	16·5	072	28	8·1	5·3	346
0·3 a. s. l. . .	28	12·6	12·0	353	28	10·0	8·5	295	28	11·7	11·6	346	27	17·6	14·5	359	28	9·1	6·5	356
0·6 „ „ .	28	13·8	12·1	341	28	8·4	6·2	292	28	11·7	11·3	337	27	14·1	9·4	352	28	9·7	6·7	350
0·9 „ „ .	28	13·5	10·5	323	28	7·2	4·6	281	28	9·4	8·3	316	27	10·7	6·6	340	28	9·5	4·9	342
1·5 „ „ .	28	12·0	5·5	219	28	8·2	4·9	216	28	9·7	7·2	240	27	7·9	3·1	325	28	9·4	3·3	293
2·1 „ „ .	28	12·6	9·6	177	28	11·4	6·1	185	28	13·0	6·6	168	27	9·1	5·1	285	28	9·7	5·2	265
3·0 „ „ .	28	12·1	9·3	242	28	12·5	7·6	262	28	12·3	5·3	238	27	14·6	13·4	272	28	15·7	14·3	267
3·6 „ „ .	19	14·4	13·7	260	27	15·1	11·9	280	16	11·1	9·5	267	27	20·3	19·3	270	28	19·9	19·0	266
4·5 „ „ .	10	17·2	16·7	270	26	15·8	13·8	268	2	11·5	10·3	320	27	30·2	29·1	270	28	28·3	27·1	264
5·4 „ „ .					26	18·7	16·8	268					27	39·9	38·5	268	27	36·6	35·5	269
6·0 „ „ .					26	20·4	17·8	264					27	46·0	44·5	267	27	42·8	41·5	270
7·2 „ „ .					19	21·0	17·2	267					27	57·9	56·7	265	27	54·9	53·7	265
9·0 „ „ .					3	33·3	32·8	263					25	72·7	71·4	270	18	62·6	61·3	268

Station	VERAVAL				VISAKHAPATNAM											
	2330				0530				1730				2330			
Time in I. S. T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Ht. in Km.																
Surface . . .	28	5·8	4·7	323	28	1·0	0·2	326	28	9·5	7·9	192	28	1·0	0·9	218
0·15 a. g. . .	28	16·3	14·3	329	28	5·2	4·2	236	28	7·9	7·1	177	28	6·9	6·6	219
0·3 a. s. l. . .	28	16·7	15·1	334	28	6·5	5·6	229	28	7·9	6·7	183	28	8·2	7·7	215
0·6 „ „ .	28	14·3	12·3	343	28	7·3	5·6	229	28	7·5	5·7	199	28	8·2	7·4	223
0·9 „ „ .	28	11·6	9·2	353	28	6·3	3·4	234	27	7·6	4·8	212	27	7·5	6·0	233
1·5 „ „ .	28	8·8	3·1	012	27	6·5	2·8	305	26	8·7	4·6	268	26	7·0	3·7	297
2·1 „ „ .	28	10·7	3·7	285	24	9·3	6·6	318	26	11·9	8·9	306	26	9·4	6·6	331
3·0 „ „ .	28	13·3	9·5	271	23	12·3	11·0	293	25	14·2	12·6	299	26	13·5	12·9	283
3·6 „ „ .	19	17·3	15·6	266	22	16·1	15·1	282	25	16·9	15·4	286	22	18·5	17·8	275
4·5 „ „ .	5	25·0	24·7	261	22	20·0	18·9	282	25	22·4	21·7	273	18	23·7	22·6	272
5·4 „ „ .	1	25·0	25·0	265	9	20·9	19·9	297	23	27·3	25·9	276	4	19·7	17·0	279
6·0 „ „ .					4	24·5	24·5	310	23	30·8	29·7	276	2	13·5	13·5	280
7·2 „ „ .									19	35·1	33·5	275				
9·0 „ „ .									2	34·5	34·5	299				

TABLE V--MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9·0 Km. above mean sea level

February 1958 (Magha 12—Phalguna 9, 1879 Saka)

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9.0 km. above mean sea level

February 1958 (Magha 12—Phalgun 9, 1879 Saka)

Ht. in Km.	n	V	v	D	Ht. in Km.	n	V	v	D					
PORT BLAIR														
0530 hrs.*														
16.2	5	28.4	17.2	154	10.5	12	12.6	4.0	045					
18.0	2	13.5	12.8	133	12.0	11	21.3	18.1	169					
21.0	1	34.0	34.0	270	14.1	4	24.0	15.9	146					
24.0	1	18.0	18.0	290	16.2	2	13.5	9.5	202					
27.0	1	23.0	23.0	310	TRIVANDRUM									
1730 hrs.*														
10.5	22	14.3	3.3	252	10.5	19	18.3	11.9	128					
12.0	21	18.9	10.9	217	12.0	18	23.6	15.8	147					
14.1	17	22.3	11.3	206	14.1	8	31.3	13.3	130					
16.2	10	25.0	15.8	177	16.2	3	25.3	12.6	305					
18.0	5	25.0	15.8	088	1730 hrs.*									
21.0	2	7.5	3.2	017	10.5	21	21.3	14.8	144					
24.0	1	6.0	6.0	110	12.0	18	23.8	11.4	165					
SANTA CRUZ														
0530 hrs.*														
10.5	22	60.3	12.6	251	UDAIPUR									
12.0	20	71.7	67.3	260	1730 hrs.*									
14.1	12	67.5	63.5	256	10.5	1	52.0	52.0	260					
16.2	6	54.5	53.2	253	VERAVAL									
18.0	1	75.0	75.0	260	0530 hrs.*									
1130 hrs.*														
10.5	3	30.3	29.5	260	10.5	23	76.6	74.4	264					
12.0	1	36.0	36.0	250	12.0	16	70.0	61.5	263					
1730 hrs.*														
10.5	21	58.6	55.7	260	14.1	7	50.7	49.4	260					
12.0	16	61.6	60.0	254	16.2	3	44.7	42.7	264					
14.1	8	72.7	66.9	256	18.0	1	45.0	45.0	280					
16.2	1	62.0	62.0	280	1130 hrs.*									
TIRUCHIRAPALLI														
0530 hrs.*														
10.5	1	4.0	4.0	035	10.5	24	73.9	72.1	262					
12.0	1	9.0	9.0	190	12.0	19	73.8	72.1	262					
1730 hrs.*														
10.5	1	4.0	4.0	035	14.1	9	61.3	60.0	267					
12.0	1	9.0	9.0	190	16.2	4	43.7	4						
					18.0	1	6.0	6.0	360					

RADIOSONDE DATA**February 1958 (Magha 12—Phalgun 9, 1879 Saka)**

During the month, observations of upper air temperature, pressure and humidity were made at 13 stations in India as given in the list below. For a detailed description of the instruments used, a reference may be made to the I.M.D. Scientific Notes Nos. 112 and 113 (Volume IX).

LIST OF RADIOSONDE STATIONS IN INDIA

Serial No.	Name of station	Type of instrument used	Date of starting	Hours of routine observations in GMT during the month	Remarks
1	Allahabad	Clock type	1st October, 1944	00 and 12	
2	Amritsar	Clock type	21st June, 1957	00 and 12	
3	Bombay	Clock type	7th September, 1954	00 and 12	
4	Calcutta	Clock type	13th December, 1946	00 and 12	Fan type used from 13th December, 1946 to 30th November, 1947.
5	Gauhati	Clock type	22nd July, 1955	00 and 12	
6	Jodhpur	Clock type	17th April, 1946	00 and 12	
7	Madras	Fan type	29th June, 1946	00 and 12	
8	Nagpur	Fan type	1st October, 1946	00 and 12	
9	New Delhi	Clock type	3rd December, 1943	00 and 12	
10	Port Blair	Fan type	4th December, 1949	00 and 12	
11	Trivandrum	Fan type	1st July, 1947	00 and 12	
12	Veraval	Fan type	3rd October, 1944	00 and 12	
13	Visakhapatnam	Fan type	8th December, 1946	00 and 12	

RADIOSONDE DATA

TABLE VI.—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 00 Hours G. M. T.

February 1958 (Magha 12—Phalgun 9, 1879 Saka)

Standard Pressure Surface mbs.	ALLAHABAD Surf. Pr. (1001 mb.)							AMRITSAR (987 mb.)							BOMBAY (1010 mb.)						
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A						
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			
Surface	28	098	286.3	293	281	280.0	28	230	280.9	288	277	277.4	28	013	293.6	299	290	288.1			
1000	26	108	..	..	..	..	26	123	..	..	..	..	28	102	..	..	..	..
900	20	1010	289.9	294	286	273.2	26	1005	286.4	290	283	269.8	28	1014	292.4	300	288	276.2			
850	20	1494	286.3	292	281	270.4	26	1483	282.8	287	277	267.3	28	1503	289.9	296	286	272.3			
800	20	2003	285.9	288	280	269.1	26	1979	279.2	284	272	265.4	28	2017	287.4	291	282	269.7			
700	20	3101	276.5	283	273	263.1	26	3063	272.4	276	268	256.0	28	3132	282.2	285	275	258.0			
600	20	4335	269.1	276	262	..	26	4277	264.6	270	261	264.0	28	4396	276.5	281	271	249.3			
500	20	5753	261.5	267	256	..	25	5664	255.1	263	250	..	28	5855	269.0	273	265	..			
400	20	7433	251.9	258	245	..	24	7304	245.5	256	239	..	27	7580	258.1	262	254	..			
300	20	9505	238.3	245	230	..	20	9302	232.2	242	225	..	24	9696	244.0	249	239	..			
250	17	10744	229.6	237	223	..	20	10527	225.8	236	215	..	22	10979	235.3	244	229	..			
200	13	12225	220.6	228	216	..	18	11990	220.2	230	214	..	21	12486	224.4	233	217	..			
175	11	13099	215.7	222	209	..	16	12841	217.8	227	209	..	18	13341	217.6	223	211	..			
150	8	14104	210.6	221	198	..	9	13805	214.8	220	205	..	13	14338	212.4	218	207	..			
125	5	15182	205.2	218	197	..	5	14974	211.6	217	205	..	10	15464	206.5	211	203	..			
100													9	16764	201.0	208	196	..			
80																					

	CALCUTTA (1012 mb.)							GAUHATI (1008 mb.)							JODHPUR (988 mb.)						
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A						
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			
Surface	28	006	290.7	297	284	289.2	28	049	286.5	291	282	285.1	27	218	288.0	291	285	273.1			
1000	28	112	..	..	..	..	28	115	..	..	..	..	27	114	..	..	..	..
900	28	1012	288.6	295	282	278.3	28	1007	286.3	291	281	278.6	27	1013	290.0	296	287	267.6			
850	28	1495	285.8	293	278	275.4	28	1485	283.0	289	278	276.2	27	1497	286.6	290	284	264.4			
800	28	2002	283.1	288	277	272.0	28	1986	279.7	285	275	273.9	27	2004	283.0	287	280	263.5			
700	28	3099	276.7	281	274	266.2	28	3070	273.1	278	269	267.3	27	3099	276.0	281	271	255.1			
600	28	4339	271.3	277	267	251.9	27	4291	267.3	272	261	..	27	4333	269.8	273	265	..			
500	28	5770	264.3	270	260	..	27	5706	261.2	272	257	..	26	5757	262.5	267	254	..			
400	28	7467	251.3	261	247	..	27	7387	251.8	260	244	..	26	7445	253.0	261	242	..			
300	27	9571	239.7	247	233	..	19	9473	240.4	250	232	..	24	9512	239.2	246	230	..			
250	23	10820	232.2	240	224	..	17	10724	232.5	243	224	..	23	10773	230.9	237	221	..			
200	22	123.7	221.9	229	214	..	16	12227	224.4	229	219	..	23	12257	222.2	227	218	..			
175	15	13153	215.3	221	209	..	9	13052	218.2	222	215	..	21	13134	217.6	222	213	..			
150	12	14116	210.3	218	206	..	7	14044	214.0	217	210	..	19	14096	212.4	219	207	..			
125	6	15112	203.0	211	197	..	6	15178	211.2	213	209	..	12	15171	208.3	213	201	..			
100	5	16451	197.6	205	192	..	5	16592	212.0	220	207	..	10	16518	204.2	209	197	..			
80																					

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 00 Hours G. M. T.

(1) From Ascents at 60 Hours G. M. T.

RADIOSONDE DATA

TABLE—VI MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From ascents at 00 hours G. M. T.

February 1958 (Magha 12—Phalguna 9, 1879 Saka)

Standard Pressure Surface mbs.	VISAKHAPATNAM Surf. Pr. (1006 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew Point
Surface	28	048	297.0	299	295	292.8
1000	28	102	..	..	..	..
900	28	1018	293.6	297	285	284.3
850	8	1509	290.8	293	284	279.7
800	28	2025	288.1	291	283	275.8
700	28	3142	282.1	287	279	264.6
600	28	4407	277.3	284	270	260.3
500	28	5868	269.1	274	261	..
400	28	7591	257.3	261	249	..
300	25	9699	241.8	246	236	..
250	21	10972	232.1	236	226	..
200	17	12435	220.9	227	211	..
175	15	13307	215.4	222	204	..
150	11	14296	209.5	215	197	..
125	7	15423	207.0	212	200	..
100	6	16773	203.2	209	198	..
80						

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 12 Hours G. M. T.

February 1958 (Magha 12—Phalgun 9, 1879 Saka)

Standard Pressure Surface mbs.	ALLAHABAD Surf. Pr. (1000 mb.)						AMRITSAR (987 mb.)						BOMBAY (1009 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point
Surface	28	98	297.3	302	289	282.3	28	230	293.4	297	287	277.9	27	13	301.1	305	298	290.8
1000	28	96	..	..	..	..	27	113	..	..	..	..	27	95	..	..	..	..
900	23	1011	292.2	296	287	271.7	27	1016	288.6	294	286	268.1	27	1018	294.6	301	290	277.0
850	23	1498	288.3	292	281	267.4	27	1497	284.7	289	281	261.9	27	1510	291.8	298	288	269.9
800	23	2012	284.9	289	280	264.7	27	2000	281.1	286	277	256.4	27	2027	288.5	294	285	265.0
700	23	3111	278.0	286	275	255.2	27	3087	273.6	279	268	245.3	27	3144	282.0	286	279	252.6
600	23	4351	270.3	279	267	..	27	4305	265.5	271	260	..	27	4408	276.4	283	274	244.7
500	23	5777	262.8	270	257	..	26	5700	256.0	262	250	..	27	5866	268.3	274	262	..
400	22	7466	253.2	261	245	..	26	7342	245.2	254	236	..	27	7596	257.8	267	251	..
300	19	9548	240.4	250	230	..	24	9353	233.9	247	226	..	24	9698	242.3	250	232	..
250	18	10807	233.2	247	224	..	23	10591	227.1	241	217	..	21	10971	233.1	242	229	..
200	14	12291	224.1	230	220	..	17	12064	222.7	229	212	..	18	12465	222.4	233	218	..
175	13	13234	219.8	224	217	..	15	12908	220.1	225	214	..	15	13313	215.7	222	213	..
150	10	14173	215.5	220	211	..	14	13867	216.4	222	210	..	12	14274	210.7	215	205	..
125	6	15257	211.2	215	207	..	10	15029	211.8	216	205	..	8	15434	208.0	212	203	..
100							5	16413	209.0	211	204	..	8	16765	202.9	207	199	..
80													7	18095	200.7	205	195	..
	CALCUTTA (1010 mb.)						GAUHATI (1005 mb.)						JODHPUR (987 mb.)					
Surface	28	6	299.7	304	294	289.5	28	49	295.5	299	294	290.6	26	218	300.0	303	297	275.8
1000	28	95	..	..	..	..	28	97	..	..	..	..	26	102	..	..	..	..
900	28	1015	293.7	298	288	280.1	28	1005	290.0	295	284	283.6	26	1022	293.5	299	288	265.7
850	28	1505	290.1	296	286	276.9	28	1489	286.7	292	279	281.6	26	1511	289.1	295	284	262.8
800	28	2019	286.8	293	283	273.4	28	2000	282.6	288	276	277.9	26	2022	284.4	289	279	263.2
700	28	3131	280.4	285	276	260.1	28	3089	274.7	279	270	269.5	26	3120	276.8	281	273	251.2
600	27	4388	274.7	280	268	246.6	28	4318	269.5	275	264	..	26	4357	269.6	274	262	..
500	27	5837	267.1	274	260	..	28	5742	263.0	271	257	..	25	5780	262.7	268	257	..
400	27	7553	256.4	264	249	..	28	7430	253.3	261	243	..	23	7464	252.4	258	243	..
300	26	9657	242.0	250	237	..	19	9505	239.7	248	227	..	21	9546	239.6	248	232	..
250	26	10929	233.4	241	227	..	14	10770	229.9	237	216	..	21	10800	231.5	238	225	..
200	26	12424	223.0	230	217	..	14	12255	221.4	229	209	..	19	12278	222.6	230	213	..
175	24	13286	217.0	225	209	..	11	13184	216.2	221	206	..	18	13131	217.6	227	207	..
150	21	14264	211.0	219	203	..	10	14153	212.1	215	201	..	15	14099	213.0	221	207	..
125	14	15342	204.8	213	200	..	9	15249	207.3	213	201	..	12	15219	208.3	213	203	..
100	11	16703	199.7	207	191	..	7	16500	204.6	211	199	..	10	16546	205.0	212	200	..
80	5	17834	198.6	200	197	..							5	17918	206.2	213	197	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 12 Hours G. M. T.

February 1958 (Magha 12—Phalgun 9, 1879 Saka)

Standard Pressure Surface mbs.	MADRAS Surf. Pr. (1009 mb.)							NAGPUR (974 mb.)							NEW DELHI (988 mb.)						
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A						
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			
Surface	28	15	301·1	303	299	293·0	28	311	304·0	307	300	283·0	28	210	295·3	299	289	279·8			
1000	28	96	..	..	..	..	28	77	..	..	..	..	28	106	..	..	..	..
900	28	1019	295·0	300	291	280·2	28	1012	298·7	302	295	277·0	28	1013	290·0	294	286	268·1			
850	28	1515	292·6	295	289	275·6	28	1511	294·1	297	288	275·2	28	1496	285·9	289	283	263·6			
800	28	2034	289·7	294	286	273·4	28	2032	289·6	294	286	274·5	28	2001	281·7	286	278	260·6			
700	28	3162	284·7	289	281	265·1	28	3150	280·2	284	274	268·5	28	3092	274·7	279	270	247·7			
600	28	4436	278·4	285	274	256·8	28	4406	275·1	283	270	247·9	28	4318	267·7	272	263	..			
500	27	5899	270·0	276	265	..	28	5857	267·2	272	261	..	28	5727	259·1	265	253	..			
400	25	7632	259·0	262	255	..	28	7573	256·4	264	248	..	28	7390	248·8	256	241	..			
300	23	9764	245·2	249	238	..	25	9690	242·5	248	232	..	27	9435	235·9	250	226	..			
250	20	11051	235·1	240	227	..	19	10963	232·8	240	218	..	26	10671	228·5	234	220	..			
200	18	12539	223·8	227	214	..	16	12459	223·8	231	214	..	24	12137	221·0	230	215	..			
175	14	13483	215·6	221	206	..	10	13307	215·7	220	206	..	22	12999	217·5	226	209	..			
150	14	14344	210·3	216	203	..	10	14236	211·5	216	202	..	22	13973	213·4	220	205	..			
125	11	15455	206·0	206	203	..	6	15368	208·2	210	206	..	17	15101	209·2	218	198	..			
100	7	16778	201·3	204	198	..							12	16473	206·3	216	196	..			
80													9	17870	206·9	213	201	..			

	PORT BLAIR (1012 mb.)							TRIVANDRUM (1002 mb.)							VERAVAL (1011 mb.)						
	Surface	28	79	300·1	302	299	295·0	28	64	302·5	303	300	296·1	28	8	299·0	301	297	292·5		
Surface	28	98	28	84	28	102
1000	28	1021	293·5	297	290	289·7	28	1013	295·3	298	293	289·3	28	1020	293·9	297	289	275·9			
900	28	1514	291·0	295	287	285·7	28	1508	292·3	295	289	286·5	28	1510	290·3	294	285	272·1			
850	28	2033	288·7	293	284	280·4	28	2028	289·4	294	284	281·5	28	2023	286·6	291	281	270·6			
800	28	3158	284·0	289	280	268·9	28	3154	284·5	289	278	271·2	28	3134	281·7	286	274	262·9			
700	28	4431	278·1	284	275	261·5	28	4424	277·0	283	272	264·7	28	4396	276·4	281	269	259·1			
600	28	5901	269·7	273	265	..	28	5884	269·1	275	265	..	28	5853	268·0	273	260	..			
500	27	7633	259·0	265	252	..	28	7610	258·4	266	253	..	28	7572	257·3	264	249	..			
400	25	9766	244·8	252	235	..	26	9718	242·7	247	235	..	28	9679	242·3	249	235	..			
300	23	11029	234·4	242	225	..	21	10998	234·0	240	226	..	27	10947	232·3	242	229	..			
200	23	12526	223·7	232	209	..	18	12485	222·8	231	214	..	27	12436	222·1	233	214	..			
175	21	13411	217·9	227	207	..	15	13353	217·1	224	269	..	24	13321	217·7	228	211	..			
150	20	14378	211·5	223	200	..	15	14334	210·6	218	202	..	21	14290	211·1	221	203	..			
125	11	15504	205·7	214	198	..	8	15437	207·6	213	203	..	15	15424	206·1	214	198	..			
100	11	16868	200·8	208	194	..	5	16755	201·8	203	201	..	11	16773	200·9	211	194	..			
80	8	18377	198·7	206	192	..							7	18086	202·1	211	191	..			

RADIOSONDE DATA

TABLE—VI MEAN DYNAMIC HEIGHT TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From ascents at 11 hours G.M.T.

February 1958 (Magha 19—Phalgun 9, 1879 Saka)

Standard Pressure Surface mbs.	VISAKHAPATNAM Surf. Pr. (1005 mb.)						
	No. of Obs.	Ht. gpm.	Temperature °A				
			Mean	Max.	Min.	Dew Point	
Surface	28	48	300.7	302	299	294.2	
1000	28	95	..	..	..	..
900	28	1018	294.7	297	292	282.0	
850	28	1512	291.9	297	288	278.9	
800	28	2030	288.7	293	285	276.7	
700	28	3150	282.3	287	278	266.9	
600	28	4420	277.3	282	272	260.9	
500	28	5883	269.2	276	265	..	
400	27	7602	257.6	264	252	..	
300	23	9718	242.4	251	236	..	
250	19	11027	233.3	244	225	..	
200	13	12510	222.5	230	215	..	
175	7	13369	217.7	223	211	..	
150	6	14380	212.8	218	207	..	
125							
100							
80							

NOTE.—Number of observations refer to those of dynamic height.

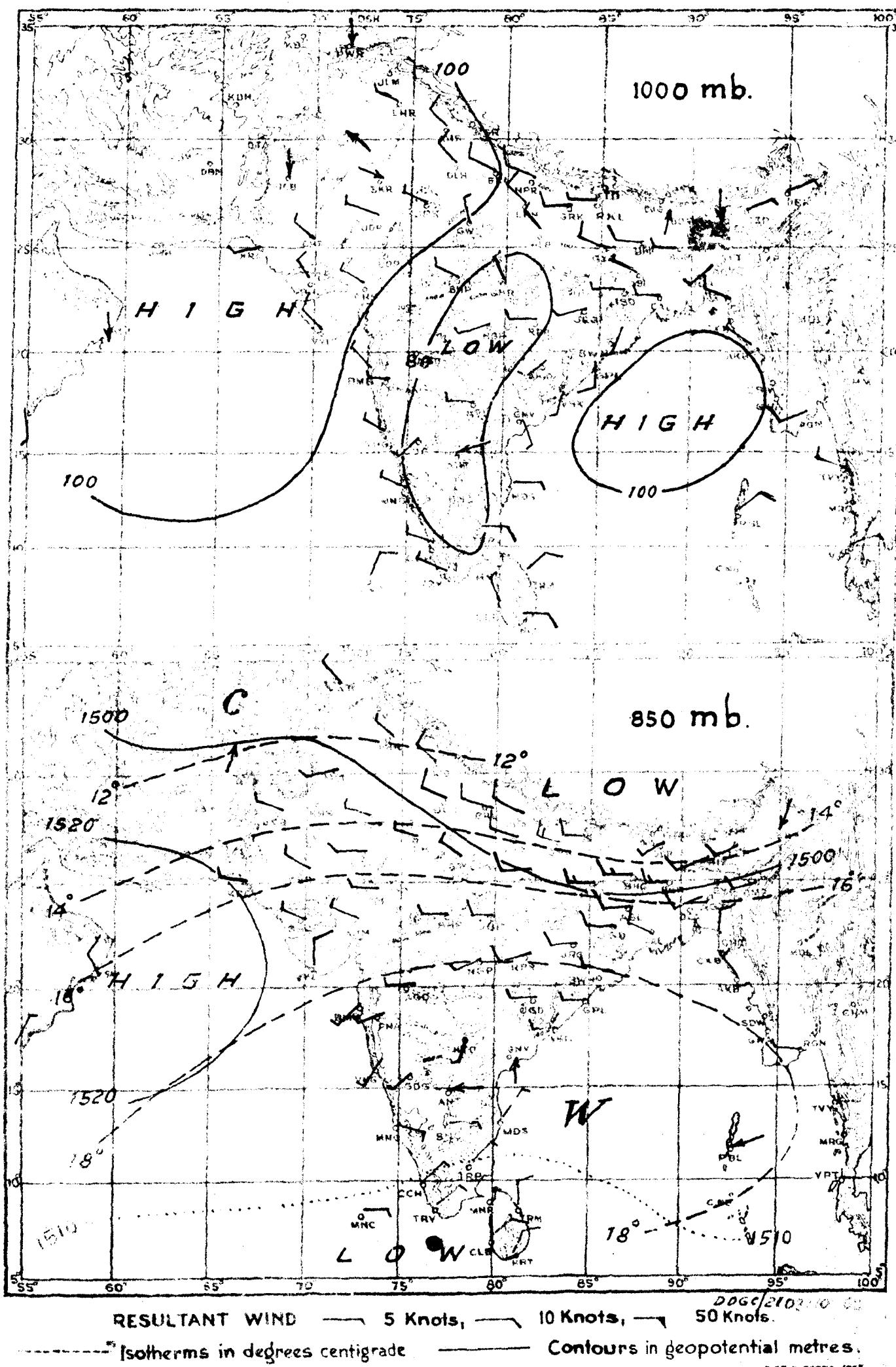
Means are not worked out for temperature and dew point for the 1000 mb. surface and for dew point for standard pressure surfaces with temperature less than 273°A.

Means are not worked out for less than five observations at standard pressure surfaces.

MONTHLY MEAN CONSTANT PRESSURE CHARTS
FEBRUARY 1958

I.Met.D.

Plate I

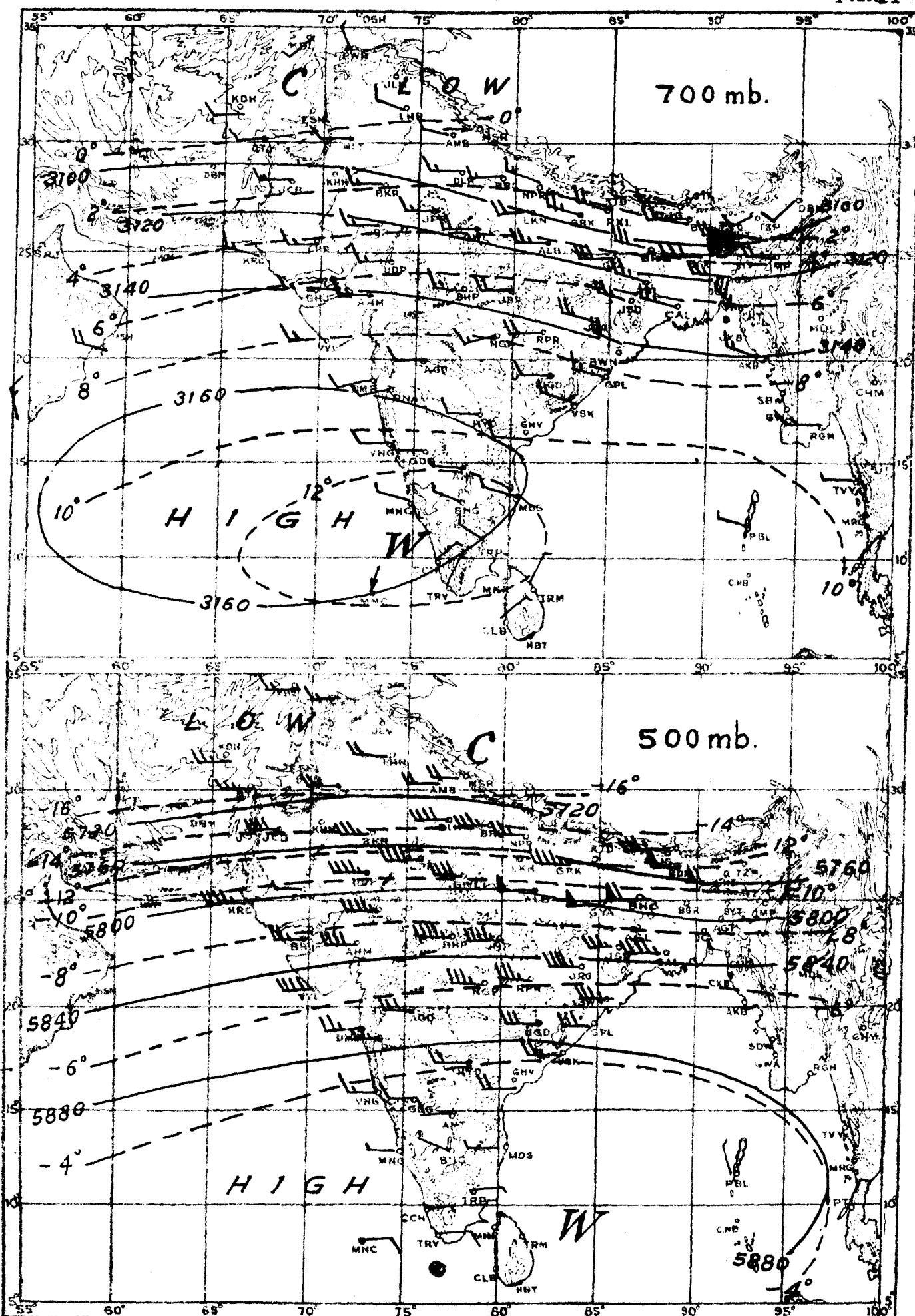


MONTHLY MEAN CONSTANT PRESSURE CHARTS

I. Met. D.

FEBRUARY 1958

Plated II



RESULTANT WIND — 5 Knots, — 10 Knots, — DDGCG 50 Knots.

----- Isotherms in degrees centigrade ----- Contours in geopotential metres.

G.P.Z. P. POONA, 1983

INDIA WEATHER REVIEW, 1958

Monthly Weather Report
MARCH

Published by authority of the Government of India

2 OCT

Chief features :—

- (1) Less than normal activity of the western disturbances resulting in deficient rainfall over northwest India; and
- (2) Occurrence of a heat wave in parts of Bombay State.

There were six western disturbances during the month. Of these, the first and the last were fairly active and gave good amounts of rainfall over northwest India. The other four western disturbances were relatively weak. Tabular statement showing the movement and activity of each western disturbance is given below.

Statement showing the movement and activity of western disturbances during the month of March 1958.

S. No.	Period	Course	Region affected	Nature of precipitation	Period	Remarks
1	1st-4th	Afghanistan-N.W. F.P.-Jammu and Kashmir.	Jammu and Kashmir	Local or scattered rain/snow	1st-3rd	Induced by Western disturbance No. 2
			Himachal Pradesh	Fairly widespread or local rain/snow	1st-3rd	
			Punjab (I)	Fairy widespread or local showers	3rd-4th	
2	8th-10th	N. W. F. P.-Jammu and Kashmir.	Rajasthan	Scattered showers	2nd	
			Uttar Pradesh	Scattered showers	3rd and 4th	
2(a)	9th-11th	East Rajasthan-West Madhya Pradesh.	Jammu and Kashmir	Local or scattered rain/snow	9th and 10th	
			West Uttar Pradesh	Scattered rain	10th	
			East Rajasthan	Isolated very light showers	10th	
			West Madhya Pradesh	Isolated very light showers	11th	
3	10th-14th	N. W. F. P.-Jammu and Kashmir.	East Uttar Pradesh	Scattered showers	11th	
			Vidarbha	Scattered showers	11th	
			Jammu and Kashmir	Local or scattered rain/snow	10th-14th	
4	17th-18th	Jammu and Kashmir	Himachal Pradesh	Local rain	12th and 13th	
			Punjab (I)	Scattered rain	12th-14th	
5	22nd-23rd	Afghanistan-N. W. F. P.-Jammu and Kashmir.	Jammu and Kashmir	Fairly widespread rain/snow	18th	
			Jammu and Kashmir	Scattered light rain/snow	23rd	
6	27th-30th	Baluchistan-Punjab (P)-Punjab (I)	Jammu and Kashmir	Fairly widespread thunder-showers with scattered snowfall	29th-30th	
			Punjab-Kumaon hills	Fairly widespread or local thundershowers	29th-30th	
			Himachal Pradesh	Fairly widespread thunder-showers	30th	
			Plains of Uttar Pradesh	Local thundershowers	30th	

A feeble upper air trough developed over Vidarbha and the adjoining areas of Telangana on 2nd March, persisted there next day and became diffuse by 4th. Under its influence, thundershowers occurred locally in east Madhya Pradesh on 3rd and 4th and at a few places in Telangana from 2nd to 4th and in Vidarbha on 3rd. Moisture also penetrated into Chota Nagpur where widespread thundershowers were recorded on 4th. A few thundershowers were accompanied by hail in Telangana on 3rd and in east Madhya Pradesh on 4th. According to press reports, over hundred persons were reported to have been injured by hail at Lamkana (east Madhya Pradesh). In association with another trough of low pressure, there was also a spell of thunderstorm activity in Madhya Pradesh between 11th and 15th and in Vidarbha, Telangana and the extreme south Peninsula between 13th and 16th.

“Copyright © 1959 by Manager of Publications, Government of India, Delhi-8”

There were fairly widespread or local thundershowers in Chota Nagpur and local or scattered thundershowers in Sub-Himalayan West Bengal and Assam on 30th and 31st.

The day temperatures were generally normal or above normal over most of the country during the month. Appreciably warm weather was experienced in parts of Bombay State between 7th and 9th and in the northern parts of the country during the last week of the month. On 7th, Bombay (Colaba) recorded a maximum temperature of 40°C (104°F) which was only 1°F below the all-time record of 105°F (41°C). Upper Assam was also in the grip of a moderate heat where on 28th and 29th.

Total rainfall during the month was in large excess in Gujarat, in moderate excess in Chota Nagpur and Maharashtra, in slight excess in Vidarbha and Kerala and normal in east Madhya Pradesh and south Mysore. It was in slight defect in east Uttar Pradesh, the Punjab (I), west Rajasthan, the Madras State and north Mysore, in moderate defect in Sub-Himalayan West Bengal, Orissa, Jammu and Kashmir, Telangana and Rayalaseema and in large defect over the rest of the country outside Saurashtra and Kutch, coastal Mysore and the Arabian Sea Islands where there was no rain.

The mean maximum temperature was normal in Orissa, Chota Nagpur, Jammu and Kashmir, Madhya Pradesh, Maharashtra, Vidarbha and the States of Andhra Pradesh, Madras, Mysore and Kerala and above normal over the rest of the country. The mean minimum temperature was normal in Assam, Gangetic West Bengal, Orissa, the Punjab (I), Jammu and Kashmir, east Rajasthan, the Konkan, Maharashtra, Vidarbha, coastal Andhra Pradesh, Telangana, coastal and north Interior Mysore, Kerala and the Arabian Sea Islands and above normal over the rest of the country.

Relative humidity in the morning was below normal in the Bay Islands, Assam, West Bengal, Orissa, Bihar and Jammu and Kashmir and normal over the rest of the country outside the Punjab (I) where it was above normal.

The mean cloud amount in the morning was normal in Orissa, east Uttar Pradesh, Jammu and Kashmir, Gujarat, coastal Andhra Pradesh, Rayalaseema and the Arabian Sea Islands and above normal over the rest of the country outside the Bay Islands, Assam, Gangetic West Bengal, west Uttar Pradesh, the Punjab (I), Rajasthan and Saurashtra and Kutch where it was below normal.

Table I contains the divisional and sub-divisional means of rainfall, temperatures, humidity and cloud amount for the 14 chief political divisions and the 30 sub-divisions. The stations whose observations are used for preparing these means are given in the subsequent tables.

The highest maximum temperature given for any station in the accompanying tables is that recorded within the 24 hours ending at 0830 hrs. IST of the date noted in the succeeding column; similarly the heaviest fall in 24 hours for any station denotes the amount recorded during the 24 hours ending at 0830 hrs. IST of the date given in the succeeding column.

POONA 5,

Dated the 15th May, 1960.

C. RAMASWAMY,

for Director General of Observatories.

Errata to M.W.R. for March 1958 (Phalguna 10, 1879 - Chaitra 10, 1880 Saka)

Page No.	Station	Hour	Col.	For	Read
-------------	---------	------	------	-----	------

Text Portion

110	Second para, last line, last but fifth word		where	wave
110	Fifth para, first line, 3rd word		in the morning	(delete)
110	Sixth para, first line, 5th word		in the morning	(delete)

Table I - Sub-Division

111	6. Chota Nagpur	2	-6.1	+ 6.1
111	22. Coastal Andhra Pradesh	6	+ 2	- 2
112	Tezpur	19	-1.4	+1.4
112	Tezpur	21	blank	0
112	Agartala	5	7,28	27,28
112	Haflong	11	4.0	4.1
112	Berhampore	19	- 2	- 2.5
113	Puri	3	+ 4.7	+ 0.7
113	Koraput	9	8,14	8,14,19
113	Chaibasa	16	-0.3	+0.3
114	Gurez	12	+ 13.9	+123.9
114	Panamik	14	182930	1
114	Khangral	14	28	18,29,30
114	Digar	14	..	28
114	Chambal	5	27,29	27,28,29
115	Guna	12	11.7	-11.7
115	Kanker	19	-9.6	-0.6
116	Dahanu	12	-1.3	+1.3
116	Bombay (Santacruz Aerodrome)	12	+1.3	-1.3
116	Miraj	7	+1.2	+1.1
116	Chanda	3	+0.9	-0.9
117	Bijapur	6	21.8	22.1
117	Balehonnur	14	16	26
118	Mahabaleshwar	14	7;24	17,24

Table III

120	Port Blair	0530	26	Blank	2
120	Pasighat	0830	3	..	157
120	Pasighat	1730	3	..	,
122	Calcutta	0830	3	,,	6
122	Barrackpore	0530	9	88.1	18.1
122	Gopalpur	02330	13	9	1.9
124	Gaya	0830	12	-6	+6
124	Gorakhpur	0830	3	,,	77
124	Gorakhpur (P.B.O.)	0230	3	,,	78
124	Allahabad (Bamrauli)	0830	28	8	0
125	Orai	0830	22	6	3
125	Mainpuri	0830	5	94.7	994.7
126	Ludhiana	0830	14	0.9	-0.9
126	Mandi	0830	20	Blank	0
126	Leh	0530	27	7	17
126	Bikaner	0830	6	Not clear	+1.5

Page

No.	Station	Hour	Col.	For	Read
<u>Table III (contd.)</u>					
127	Dholpur	1730	21	Blank	1
128	Indore	1130	15	11.4	11.3
128	Raigarh	1730	10	3.1	13.1
129	Porbander	0830	25	15	2
130	Rajkot (Aerodrome)	1130	13	0.0	0
130	Veraval	2330	9	18.6	18.0
131	Nagpur	0830	4	Not clear	1013.1
131	Brahmapuri	0830	22	5	4
131	Brahmapuri	0830	24	4	2
132	Rentachintala	1730	4	1008.8	1007.9
132	Nidadavolu	1730	9	21.7	19.7
132	Nizamabad	1730	5	965.9	965.7
132	Mahbubnagar	0830	17	0	1
134	Bangalore (Aerodrome)	1730	7	31.3	31.2
135	Kozhikode	1130	4	1014.5	1012.4
136	Kodaikanal	0830	4	3176.9	3176.8
136	Durgapur	1730	17	0	2
137	Jomosom	0830	9	2.3	-2.3
137	Jomosom	1730	10	6.1	6.2

Page No.	Station	Time in I.S.T.	Height in Km.	Entry under column	Existing entry	Correct entry
----------	---------	----------------	---------------	--------------------	----------------	---------------

141	Ahmedabad	0530	1.5	D	3 6	306
141	Ambala	0530	Time	Time of ascent	0 30	0530
141	Ambala	1730	7.2	D	290	291
142	Amritsar	1730*	0.6	D	215	325
144	Heading, Ht.in.Km (Lower portion)		3.0	Ht.in Km:	3.	3.0
144	Bhagalpur	1130	3.0	D	211	281
144	Bhubaneshwar	1130	Values printed against 4.5 level be read against 3.6 level			
144	Bhubaneshwar	2330	4.5	D	115	225
145	Chikal thana	2330	5.4	D	2 8	288
149	Jaipur	1730	0.9	V	10.1	10.0
149	Jamshedpur	1730	7.2	V	33.2	33.3
150	Minicoy	2330	0.9	D	036	038
151	Mohanbari	1130	3.0	n	12	13
152	New Delhi	1730*	3.0	n	32	31
153	Raxaul	0530	7.2	n	1	4
156	Jodhpur	0530	Time of ascent 0530			0530*
156	New Delhi	0530	10.5	V	60.0	60.6
157	Trivandrum	0530	24.0	D	256	255
157	Veraval	1730*	18.0	V	52.	52.6
<u>Errata for Radiosonde Data</u>						
160	Madras	00 GMT	400 mb.	Ht.gpm.	601	7601
163	Port Blair	12 GMT	800 mb.	Ht.gpm.	20 2	2032

TABLE I—DIVISIONAL AND SUB-DIVISIONAL MEANS—MARCH, 1958 (PHALGUNA 10, 1879—CHAITRA 10, 1880 SAKA)

111

	Rainfall (millimetres)	Cloud									Rainfall (millimetres)	Cloud								
		1	2	3	4	5	6	7	8	9		1	2	3	4	5	6	7	8	9
1.	Division										Division—contd.									
1.	Assam (Including Manipur, Tripura).	14.0	17	31.4	17.1	64	53	1.9	2.3		9. Madhya Pradesh	10.3	87	33.9	18.0	40	22	2.1	2.8	
		-67.9		+2.7	+0.9	-9		-1.2			-1.6	-1.6	+0.5	+1.2	+1		+0.8			
2.	West Bengal	16.7	53	34.2	20.0	53	37	1.6	1.7		10. Bombay	3.9	105	34.6	20.2	54	34	1.6	1.9	
		-15.1		+1.3	+0.9	-9		-0.4			-0.2	-0.2	+0.5	+1.1	+1		+0.4			
3.	Orissa	14.5	58	33.4	21.8	61	51	2.0	3.8		11. Andhra Pradesh	3.5	42	35.2	23.1	65	46	2.3	2.5	
		-10.5		-0.2	+0.2	-7		0			-4.8	-4.8	-0.1	+0.8	0		+0.4			
4.	Bihar	10.4	72	34.1	18.2	45	29	2.4	2.3		12. Madras State	12.3	83	33.8	24.1	74	55	3.3	2.7	
		-4.1		+1.3	+1.3	-4		+0.9			-2.6	-2.6	0	+1.5	-1		+0.8			
5.	Uttar Pradesh	6.7	57	32.9	16.2	47	24	1.3	1.5		13. Mysore	8.2	92	34.0	21.3	59	35	2.7	4.1	
		-5.1		+1.4	+1.2	-3		-0.2			-0.7	-0.7	-0.4	+0.8	+1		+1.3			
6.	Punjab (India) Including Himachal Pradesh and Delhi)*	13.8	79	31.9	15.0	59	30	1.0	1.9		14. Kerala	41.8	116	32.5	25.2	75	68	2.9	3.7	
		-3.7		+1.6	+1.0	-7		-1.1			+5.9	+5.9	+0.5	+0.4	-1		+0.8			
7.	Jammu and Kashmir	34.2	68	16.1	4.0	57	51	4.5	4.9		Mean of India	8.4	58	33.8	19.3	53	33	1.9	2.4	
		-15.9		+0.5	0	-7		+0.3			-6.1	-6.1	+0.8	+1.1	-1		+0.2			
8.	Rajasthan	2.9	52	33.7	17.3	40	19	1.1	2.0		(Excluding Jammu and Kashmir and Himachal Pradesh).									
Sub-Division										Sub-Division—contd.										
Bay Islands		1.9	7	33.1	23.3	66	75	2.3	3.4	16. Madhya Pradesh (East).	19.6	110	33.6	18.5	50	30	2.7	3.1		
		-26.6		+2.3	+1.4	-6		-0.6		-1.8	-1.8	+0.4	+1.3	+5		+1.2				
Assam (Including Manipur, Tripura).		140.0	17	31.4	17.1	64	53	1.9	2.3	17. Gujarat	2.0	222	36.5	19.6	45	17	1.1	1.1		
		-67.9		+2.7	+0.9	-9		-1.2		-1.1	-1.1	+1.1	+1.9	-5		+0.1				
Sub-Himalayan West Bengal.		19.8	63	32.4	17.1	52	29	1.5	1.4	18. Saurashtra and Kutch.	0	0	34.1	19.4	65	40	1.0	0.7		
		-11.4		+1.5	+1.1	-7		+0.3		-2.2	-2.2	+1.1	+1.1	+3		-0.4				
Gangetic West Bengal.		15.5	48	34.7	20.9	53	39	1.6	1.8	19. Konkan	0.3	33	31.2	22.4	70	64	2.1	1.9		
		-16.5		+1.2	+0.8	-10		-0.6		-0.6	-0.6	+1.1	+0.7	-1		+0.5				
5. Orissa		14.5	58	33.4	21.8	61	51	2.0	3.8	20. Maharashtra	5.0	132	35.8	19.1	44	23	1.8	3.1		
		-10.5		-0.2	+0.2	-7		0		+1.2	+1.2	-0.1	+0.9	+3		+0.9				
6. Chota Nagpur		26.5	130	33.7	18.8	52	35	2.9	3.1	21. Vidarbha	15.3	116	36.5	20.5	41	21	2.3	3.1		
		-6.1		+0.5	+1.3	+2		+1.3		+2.1	+2.1	-0.3	+0.9	+5		+1.0				
Bihar		4.0	33	34.3	17.8	40	26	2.0	1.7	22. Coastal Andhra Pradesh.	1.7	20	34.3	23.5	72	61	2.6	2.3		
		-8.3		+1.9	+1.3	-8		+0.6		-7.0	-7.0	+0.2	+0.5	+2		+0.2				
8. Uttar Pradesh (East).		6.9	78	33.8	16.7	45	24	1.3	1.3	23. Telangana	8.2	73	35.4	21.6	59	26	2.6	3.2		
		-1.9		+1.3	+1.1	-3		0		-3.0	-3.0	-0.4	+0.9	+5		+1.1				
9. Uttar Pradesh (West).		6.5	43	31.9	15.6	49	24	1.3	1.8	24. Rayalaseema	2.4	53	37.7	24.3	54	32	1.1	2.1		
		-8.7		+1.5	+1.3	-2		-0.5		-2.1	-2.1	-0.3	+1.3	+1		+0.1				
10. Punjab (India) (Including Delhi).		13.8	79	31.9	15.0	59	30	1.0	1.9	25. Madras State	12.3	83	33.8	24.1	74	55	3.3	2.7		
		-3.7		+1.6	+1.0	-7		-1.1		-2.6	-2.6	0	+1.5	-1		+0.8				
11. Himachal Pradesh.		46.9	..	27.3	9.6	77	37	3.3	3.9	26. Coastal Mysore	0	0	31.5	23.7	77	66	3.1	3.1		
		..	..	..	..	..	..	..		-2.8	-2.8	-0.5	+0.1	+1		+0.7			
12. Jammu and Kashmir.		34.2	68	16.1	4.0	57	51	4.5	4.9	27. Mysore (North)	6.9	87	35.5	21.1	51	31	2.5	4.5		
		-15.9		+0.5	0	-7		+0.3		-1.0	-1.0	-0.3	+0.5	+1		+1.4				
13. Rajasthan (West)		4.7	75	33.9	17.4	43	19	1.2	1.9	28. Mysore (South)	12.5	102	33.4	20.6	62	26	2.8	4.1		
		-1.6		+2.7	+2.4	-5		-0.7		+0.3	+0.3	-0.5	+1.3	0		+1.4				
14. Rajasthan (East)		1.0	20	33.6	17.2	37	20	0.9	2.2	29. Kerala	41.8	116	32.5	25.2	75	68	2.9	3.7		
		-3.9		+1.5	+1.0	0		-0.5		+5.9	+5.9	+0.5	+0.4	-1		+0.8				
15. Madhya Pradesh (West).		3.7	47	34.1	17.7	33	16	1.7	2.6	30. Arabian Sea Islands.	0	0	32.6	25.7	74	69	3.1	3.1		
		-4.1		+0.6	+1.2	-2		+0.5		-13.2	-13.2	+1.5	+0.5	+1		+0.5				

Note.—The entries in the second line for each division and sub-division indicate departures from normal.

*Data of Himachal Pradesh not included.

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—MARCH, 1958
(PHALGUNA 10, 1879—CHAITRA 10, 1880 SAKA)

Division and station	Air temperature in °C									Rainfall in millimetres					No. of rainy days (2.5 mm. or more)			Wind speed, kms. per hour			Weather phenomena—No. of days with																				
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall	Line squall													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29												
Bay Islands																																									
Maya Bandar	29.0	..	30.9	18	23.8	..	21.6	2	0	0	..	0	..	0	..	8.6	3.9	..	0	0	0	0	0	0	0	0	0	0	0												
Long Island	32.9	..	34.3	27	23.2	..	20.9	2	0	0	..	0	..	0	..	2.7	1.0	..	0	0	0	6	0	0	0	0	0	0	0												
Port Blair	33.1	+2.3	35.1	17,19	23.3	+1.4	20.3	18	1.6	1.9	-26.6	1.3	10	2	-0.1	10.8	6.9	-2.6	2	0	0	4	12	0	0	0	0	0	0												
Car Nicobar	32.0	..	33.2	28,29	22.7	..	19.3	17	23.9	38.6	..	24.1	20	3	..	8.6	4.5	..	3	0	0	1	0	0	0	0	0	0													
Nancowry	31.3	..	34.1	26	25.2	..	23.2	9	35.6	109.5	..	41.9	1	3	..	1.4	0	..	6	0	0	4	0	0	0	0	0	0													
Kondul	30.1	..	31.7	19,27	24.6	..	22.2	11	144.0	242.7	..	77.5	8	7	..	7.0	4.5	..	10	0	0	0	7	0	0	0	0	0	0												
Assam (including Manipur, Tripura)																																									
Pasighat	27.7	..	33.2	28	18.2	..	15.2	1	9.3	32.9	..	14.7	31	5	..	14.5	20.3	..	6	0	0	1	0	0	0	0	0	0	0												
Digboi	29.3	..	32.8	28	15.4	..	11.6	18	0	13.5	..	8.9	2	4	..	5.1	4.2	..	4	0	0	0	0	0	0	0	0	0	0												
Dibrugarh	29.5	+3.4	33.3	28,30	16.8	+0.8	13.9	4,18	0.3	4.1	-99.0	2.8	12	1	-7.5	4.0	2.6	+0.3	3	0	0	2	0	0	0	0	0	0	0												
Dibrugarh (Mohanbari Aerodrome)	29.0	..	33.3	30	15.7	..	11.8	18	0.8	5.7	..	2.8	12	1	..	7.7	4.4	..	5	0	0	5	0	0	0	0	0	0	0												
North Lakhimpur	29.1	..	32.9	30	14.8	..	11.7	7	1.3	8.5	..	4.1	11	1	..	..	..	..	5	0	0	0	0	0	0	0	0	0	0								
Sibsagar	29.3	+3.1	33.1	27	16.5	+0.9	13.0	18	0.9	3.2	-108.6	1.0	21	5	-3.5	6.6	4.2	+0.3	4	0	0	4	0	0	0	0	0	0	0												
Jorhat	15.7	..	12.2	18	10.2	1.8	..	1.3	30	0	2	0	0	5	4	0	0	0	0	0	0	0											
Golaghat	31.1	..	34.4	27	8.6	..	6.6	18	0.8	6.6	..	5.6	30	1	..	..	..	..	2	0	0	0	0	0	0	0	0	0	0								
Gohpur	30.0	..	33.2	27,29,30	14.7	..	10.5	3	0	3.8	..	2.5	30	1	..	8.0	4.7	..	2	0	0	0	0	0	0	0	0	0	0												
Tezpur	31.8	+3.2	35.7	30	18.2	+1.4	15.8	7	1.5	5.8	-43.0	2.8	30	1	-3.5	10.0	6.7	-1.4	3	0	0	2	0	0	0	0	0	0	0												
Tezpur (P.B.O.)	31.4	..	35.1	27	17.3	..	14.0	7	0.3	6.4	..	3.8	30	1	..	6.7	4.7	..	3	0	0	2	0	0	0	0	0	0	0												
Majbat	0.3	7.4	..	4.8	22	1	..	8.5	5.4	..	3	0	0	3	0	0	0	0	0	0	0	0											
Chaparmukh	34.4	..	37.2	27	14.4	..	13.3	4,24	0	8.9	..	5.8	30	1	3	0	0	2	0	0	0	0	0	0	0	0											
Tangla	31.5	..	35.4	29	15.8	..	12.7	10	0	1.3	..	0.8	31	0	..	7.8	4.5	..	2	0	0	0	0	0	0	0	0	0	0	0											
Gauhati	32.5	+2.6	36.3	30	17.3	+1.6	14.6	3	1.3	9.2	-41.3	5.1	30	2	-1.8	4.7	2.5	-0.6	2	0	0	0	0	0	0	0	0	0	0	0											
Gauhati (Bhorjor Aerodrome)	32.3	..	36.1	29	15.1	..	12.1	6	2.8	16.8	..	8.9	30	2	..	8.9	4.8	..	2	0	0	3	0	0	0	0	0	0	0	0	0										
Rangiya	32.1	..	35.3	30	0	6.3	..	6.3	30	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0									
Goalpara	32.6	..	37.6	29	15.7	..	11.4	6	4.3	18.4	..	10.6	31	2	..	6.4	3.3	..	3	0	0	0	0	0	0	0	0	0	0	0	0										
Dhubri	31.7	+1.7	36.1	27	19.0	+1.7	15.8	18	33.5	60.0	+17.8	38.1	31	3	+0.5	5.8	5.3	-1.9	3	0	0	1	0	0	0	0	0	0	0	0	0										
Dhubri (Rupai Aerodrome)	33.1	..	37.8	29	15.9	..	11.3	6	3.1	29.0	..	23.9	31	2	..	8.7	4.7	..	3	0	0	1	0	0	0	0	0	0	0	0	0	0									
Tura	31.8	..	37.2	29	19.8	..	15.0	6	4.3	20.0	..	12.9	1	2	..	7.8	7.4	..	3	0	0	0	0	0	0	0	0	0	0	0	0	0									
Agartala	34.0	..	38.9	7,28	18.0	..	13.1	7	2.4	26.4	..	9.1	30	4	..	9.4	6.1	..	4	0	0	3	2	0	0	0	1	0	0	0	0	0	0								
Silchar	31.0	+1.0	37.0	29	17.2	0	14.6	7	0.8	2.3	-169.4	2.3	30	0	-8.1	2.7	1.5	-1.6	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0								
Silchar (Kumbhigram Aerodrome)	32.6	..	37.2	30	17.0	..	14.4	5	1.8	3.1	..	2.5	30	1	..	7.3	8.7	..	2	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0							
Imphal	28.7	..	32.3	30	9.4	..	5.7	9	1.3	0	..	0	..	0	..	13.0	7.5	..	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0						
Haflong	28.3	..	33.3	30	16.6	..	11.4	5	2.3	4.0	..	2.8	30	1	..	16.4	10.3	..	2	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0						
Lumding	33.9	+3.8	38.3	30	14.5	+0.1	10.8	8	6.6	13.6	-32.1	7.3	24	2	-2.3	4.5	2.3	..	2	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Sub-Himalayan West Bengal																																									
Bengal Cooch Behar(C.W.O.)	32.8	..	37.3	29	15.5	..	10.0	6	25.9	28.0	-13.7	27.7	31	1	-1.5	7.5	4.0	..	2	0	0	4	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
Jalpaiguri	30.3	+0.7	34.2	27	16.2	+0.5	12.2	6	30.0	30.0	-2.3	30.0	31	1	-1.3	9.4	5.9	+3.0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bagdogra	32.0	..	35.7	29	14.2	..	9.8	6	39.2	40.0	..	39.2</																													

TABLE II.—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—MARCH, 1958 (PHALGUNA 10, 1879
CHAITRA 10, 1880 SAKA)

Division and station	Air temperature in °C									Rainfall in millimetres						No. of rainy days (2-5 mm. or more)			Wind speed, kms. per hour			Weather phenomena—No. of days with								
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0-3mm. or more)	Snow or sleet	Hail	Thunder & rain	Fog	Dust-storm	Ground frost	Gale	Squall	Light snowfall		
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29		
1																														
Orissa—Contd.																														
Chandbali	30.9	-3.3	38.4	28	22.4	+0.9	18.9	18.19	7.3	10.9	-21.9	6.3	29	2	-0.1	12.4	8.3	-1.4	2	0	0	0	0	0	0	0	0	0	0	
Cuttack	36.2	+0.3	41.2	28	22.0	-0.1	19.1	18	3.0	3.0	-23.4	1.5	2.3	0	-1.4	6.7	5.0	+1.1	2	0	0	3	0	0	0	0	0	0	0	
Bhubaneswar	35.4	..	40.6	28	22.3	..	19.3	19	17.8	18.1	..	9.4	2	2	..	12.4	10.5	..	2	0	0	4	1	0	0	0	0	1	0	
Puri	30.9	+4.7	34.8	9	24.4	+0.2	21.2	8	3.3	5.6	-7.1	3.6	2	1	+0.1	17.8	15.9	-1.2	2	0	0	2	0	0	0	0	0	0	0	
Gopalpur	32.1	+1.5	35.4	19	22.2	-0.5	19.8	19	2.3	2.3	-13.7	1.3	13	0	-1.1	15.9	12.6	-3.2	2	0	0	3	0	0	0	0	0	0	0	
Koraput	31.4	..	34.4	27,28	17.8	..	15.6	8,14	0	6.3	..	4.8	30	1	..	..	..	..	2	0	0	0	0	0	0	0	0	0	0
Titilagarh	34.4	..	38.9	27	21.2	..	17.8	8	0	5.0	..	2.5	3	1	..	4.8	3.5	..	3	0	0	0	3	0	0	0	0	0	0	
Bolangir	35.2	..	39.6	30	19.7	..	15.5	10	0	0	..	0	0	..	..	8.6	6.6	..	0	0	0	0	0	0	0	0	0	0	0
Angul	34.5	-0.9	39.6	28,29	20.5	+0.4	17.3	8	2.6	22.4	+3.9	19.8	1	1	-0.7	8.4	6.5	-0.1	4	0	0	0	0	0	0	0	0	0	0	
Keonjhar	32.6	..	37.2	30	19.3	..	16.1	9	13.7	30.2	..	11.2	3	3	..	7.9	5.3	..	3	0	0	3	0	0	0	0	0	0	0	
Sambalpur	33.7	-1.7	39.4	28	19.5	+0.2	16.6	18	4.6	32.6	+10.8	17.0	4	4	+2.3	1.7	0.9	-3.1	6	0	0	2	8	1	0	0	0	0	0	
Jharsuguda	33.9	..	39.6	29	19.1	..	16.1	8,18	0.5	30.0	..	26.5	4	1	..	8.0	6.8	..	4	0	0	6	0	0	0	0	0	2	0	
Chota Nagpur																														
Jamshedpur	34.0	-0.4	39.1	28	19.5	+1.3	15.6	6,8	3.3	31.7	+13.4	15.7	4	4	+2.0	7.7	5.0	+0.7	6	0	0	5	0	1	0	0	0	0	0	
Jamshedpur (P.B.O.)	34.3	..	40.0	28	18.8	..	15.4	8	5.6	32.7	..	19.3	4	3	..	5.8	3.3	..	5	0	0	5	0	0	0	0	0	0	0	
Chaibasa	34.1	-0.5	39.4	29	19.6	+0.8	15.6	6,7,8	6.4	35.4	+13.3	18.0	1	2	-0.3	4.3	2.6	-0.6	4	0	0	4	0	0	0	0	0	0	0	
Ranchi	32.0	+1.5	36.7	29,30	17.9	+0.5	14.3	3	5.6	15.8	-16.4	9.4	4	3	+0.5	..	..	..	3	0	0	0	0	0	0	0	0	0	0
Ranchi (C.W.O.)	30.8	..	35.4	28,29	18.5	..	12.8	7	6.3	28.7	..	11.7	1	3	..	20.0	(6)	11.8	..	5	0	0	8	0	0	0	0	0	0	
Daltonganj	34.9	+2.0	39.1	29	17.9	+2.4	11.4	7	0	25.9	+8.9	11.2	12	4	+2.4	7.9	4.0	+0.1	4	0	0	4	0	0	0	0	0	0	0	
Hazaribagh	31.9	+1.0	36.8	30	18.2	+0.9	12.6	7	2.0	12.9	-11.0	9.1	4	2	+0.1	12.3	9.2	-1.1	3	0	0	3	0	0	0	0	0	0	0	
Dhanbad	34.2	..	39.5	29	21.2	..	15.6	7	10.2	19.4	..	16.3	4	2	..	9.0	6.4	..	2	0	0	4	7	2	0	0	0	0	0	
Bihar																														
Purnea	34.6	+2.7	39.3	29	15.9	+0.7	10.7	7	0	13.5	+0.8	13.2	1	1	-0.1	10.3	5.7	+1.2	2	0	0	0	0	0	0	0	0	0	0	
Forbesganj	34.5	..	39.0	30	15.3	..	11.3	7	1.3	1.3	..	1.0	1	0	..	12.8	7.3	..	2	0	0	1	0	0	0	0	0	0	0	
Darbhanga	33.9	+2.3	37.8	29	17.2	+1.4	11.7	10	0	0	-12.9	0	..	0	-1.1	6.2	3.1	-1.2	0	0	0	0	0	0	0	0	0	0	0	
Motihari (R)
Muzaffarpur
Chapra
Arrah
Patna	34.1	+2.0	39.1	29	19.5	+1.6	13.7	7	0	6.9	-3.8	6.9	1	1	-0.1	9.4	7.7	+2.1	1	0	0	2	0	3	0	0	0	0	0	0
Patna (Aerodrome)	34.1	..	38.9	28,29	17.6	..	11.9	6	0	16.0	..	16.0	1	1	..	12.0	6.1	..	1	0	0	2	0	0	0	0	0	0	0	0
Dehri	34.2	..	40.0	29	19.7	..	14.4	6	0	1.8	-9.4	1.8	4	0	-1.0	10.7	7.2	..	1	0	0	3	0	0	0	0	0	0	0	0
Gaya	34.8	+1.6	40.0	29	18.4	+1.1	12.6	7	0	5.7	-6.8	3.8	23	1	-0.2	10.0	6.3	-1.3	3	0	0	3	0	1	0	0	0	2	0	
Jamui	35.0	..	39.4	28,29	19.3	..	12.8	7	0	0.3	..	0.3	1	0	..	10.3	5.6	..	1	0	0	0	0	0	0	0	0	0	0	
Dumka	34.2	+1.0	40.3	29	19.7	+1.6	15.4	6	0	1.5	-21.6	1.5	1	0	-1.6	7.5	4.7	+1.6	1	0	0	0	0	0	0	0	0	0	0	
Bhagalpur	34.2	..	38.8	29	20.1	..	15.1	7	0	0	..	0	..	0	..	12.8	8.2	..	0	0	0	0	0	0	0	0	0	0	0	0
Sabour	34.1	+1.5	38.8	29	16.2	+1.1	9.8	6	0	1.5	-9.2	1.5	4	0	-0.9	13.3	8.0	-0.4	1	0	0	0	0	0	0	0	0	0	0	
Uttar Pradesh (East)																														
Gonda	32.8	+0.6	38.1	28	14.5	-0.6	8.9	2	0	0	-4.6	0	..	0	-0.8	7.8	5.7	-1.7	0	0	0	0	0	0	0	0	0	0	0	0
Nautanwa	34.1	..	37.9	28	14.6	..	10.0	6	0	12.1	..	6.3	1	2	..	6.6	4.2	..	2	0	0	0	0	0	0	0	0	0	0	

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—MARCH, 1958.
(PHALGUNA 10,—1879—CHAITRA 10, 1880 SAKA)

Division and station	Air temperature in °C									Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed, Kmg. per hour		Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lower	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours*	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.3mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall	Line squall	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
Uttar Pradesh (West)—Contd.																													
Agra Aerodrome (R)	33.7	+1.5	39.0	29	16.0	+1.3	10.2	15.13	..	0	0	-8.6	0	..	0	-0.8	5.1	2.8	-1.1	0	0	0	0	0	0	0	0	0	0
Mainpuri . . .	32.3	+2.2	38.0	28	15.2	+0.5	9.2	5	0	8.1	-6.4	6.6	3	1	-0.3	10.0	7.4	+0.5	2	0	0	0	0	0	0	0	0	0	
Aligarh . . .	32.5	+1.9	37.2	28	16.3	+1.5	11.1	6	0	0	0	-15.5	0	..	0	-1.3	11.0	7.0	+3.0	0	0	0	0	0	0	0	0	0	
Bareilly . . .	31.3	+1.4	36.1	28	15.7	+1.7	9.5	5	..	1.8	-13.4	1.8	4	0	-1.4	..	8.0	..	1	0	0	0	0	0	0	0	0	0	
Meerut . . .	30.9	..	36.4	28	12.6	..	6.8	5	0	9.1	..	5.8	29	1	..	4.0	2.4	..	3	0	0	0	0	0	0	0	0	0	
Najibabad . . .	30.2	+1.4	36.7	28	13.6	+0.8	8.6	7	1.5	12.9	-6.9	7.1	30	1	-0.6	7.2	6.0	+2.0	6	0	0	0	0	0	0	0	0	0	
Roorkee . . .	27.8	+1.5	33.3	28	12.8	+0.5	7.2	5	1.0	30.8	-1.2	12.7	30	4	+1.3	5.1	4.0	+0.6	8	0	0	0	0	0	0	0	0	0	
Dehra Dun . . .	27.8	+1.5	33.3	28	12.8	+0.5	7.2	5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Punjab (India) (Including Delhi)																													
New Delhi . . .	31.4	+0.8	36.4	28	16.3	+1.5	9.3	5	10.7	18.4	+5.5	11.7	4	2	+0.7	16.0	12.5	+1.1	4	0	0	5	0	0	0	0	0	2	0
Hissar . . .	33.1	+2.1	38.1	28	14.4	+0.6	6.1	5	3.3	6.4	-9.9	6.4	12	1	-0.5	9.3	8.0	+1.1	1	0	0	0	0	0	0	0	0	0	
Karnal . . .	30.6	..	35.6	28	13.8	..	8.3	5.5	2.5	7.6	..	7.6	4	1	..	..	..	..	1	0	0	3	0	0	0	0	0	0	
Patiala . . .	30.6	..	35.9	28	14.9	..	8.7	1	2.3	7.7	-9.1	5.8	4	1	-0.7	12.7	10.4	..	2	0	0	3	0	0	0	0	0	0	
Ambala . . .	31.1	+2.0	36.3	28	14.4	+0.8	8.1	6	0	22.7	-1.2	17.3	4	2	+0.2	10.7	7.6	+1.6	3	0	0	0	0	0	0	0	0	0	
Ambala(Aerodrome)	30.5	..	35.9	28	13.5	..	8.2	4	1.4	14.4	..	6.7	4	2	..	..	..	..	3	0	0	4	0	1	0	0	0	0	
Chandigarh . . .	30.4	..	35.6	28	15.8	..	8.8	5	0	14.9	..	6.6	4	3	..	..	..	..	5	0	0	0	0	2	0	0	0	0	
Ludhiana . . .	31.3	+2.9	37.3	28	13.6	+0.1	4.1	4	0.5	6.8	-17.1	4.3	3	2	+0.2	4.9	3.5	+0.3	2	0	0	0	0	0	0	0	0	0	
Ferozepur . . .	29.8	..	36.5	28	12.2	..	6.2	4.5	0	1.3	..	1.3	3	0	..	6.4	3.9	..	1	0	0	0	0	0	0	0	0	0	
Amritsar . . .	29.0	..	35.1	28	10.9	..	4.4	5	2.3	7.4	..	3.8	3	1	..	12.2	8.9	..	3	0	0	4	0	0	0	0	0	0	
Pathankot . . .	28.5	..	35.2	28	13.5	..	7.4	4	14.2	38.5	..	16.7	30	4	..	5.7	4.6	..	5	0	0	1	0	0	0	0	0	0	
Pathankot(Aerodrome)	28.8	..	35.0	28	13.2	..	8.0	4	12.5	37.1	..	18.0	30	3	..	11.2	8.9	..	4	0	0	5	0	0	0	0	0	1	
Himachal Pradesh																													
Bilaspur . . .	28.4	..	33.8	28	10.2	..	5.5	5	31.8	46.9	..	24.4	30	3	..	6.1	4.6	..	8	0	0	1	5	2	0	0	0	1	
Mandi . . .	26.2	..	32.3	28	9.0	..	4.3	5	16.1	46.9	..	22.1	30	4	..	4.2	2.7	..	10	0	0	4	1	0	0	0	0	0	
Jammu and Kashmir																													
Banjhal(R)																													
Srinagar . . .	13.9	+0.1	22.3	28	4.2	+1.4	0	5	20.6	58.9	-32.8	13.7	12	9	+1.6	7.6	6.3	+1.2	14	0	0	2	0	0	0	0	0	0	
Gulmarg (R) . . .																													
Sonemarg† . . .																													
Dras . . .																													
Kargil . . .																													
Leh . . .	6.1	-0.7	14.6	28	-6.7	-9.6	-14.0	5	0	3.8	-3.3	3.8	30	1	+0.1	5.9	5.5	+2.3	1	4	0	0	0	0	0	0	0	0	0
Skardu (R) . . .																													
Gurez . . .																													
Gilgit (R) . . .																													
Misgar (R) . . .																													
Jammu . . .	28.2	+2.1	35.1	28	14.4	-0.8	8.6	4	..	39.9	-11.7	12.2	12	3	-0.7	..	..	..	7	0	0	1	0	0	0	0	0	0	
Gund . . .																													
Pandras . . .																													
Panamik . . .																													
Khangral . . .																													
Digar . . .																													
Khalatse . . .																													
Mulbik (R) . . .																													
Rajasthan (West)																													
Sri Ganganagar . . .	31.3	+3.0	37.2	28	14.4	+3.2	7.2	4	0	23.6	+10.7	23.6	3	1	-0.4	3.3	3.2	-5.5	1	0	1	1	0	0	0	0	0	0	
Churu . . .	32.8	..	38.2	28	14.5	..	6.9	4	0	0.3	..	0.3	3	0	..	11.3	7.0	..	1	0	0	1	0	0	0	0	0	0	
Bikaner . . .	33.2	+1.3	38.1	25	15.4	+0.8	7.9	5	0	0	-5.8	0	..	0	-0														

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—MARCH, 1958
 (PHALGUNA, 10, 1879—CHAITRA 10, 1880 SAKA)

116 TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—MARCH, 1958.(PHALGUNA 10, 1879-CHAITRA 10, 1880 SAKA)

Division and station	Air temperature in °C									Rainfall in millimetres				No. of rainy days (2.5 mm. or more)			Wind speed. Kms. per hour.		Weather phenomena—No. of days with																			
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.9 mm. or more)	Snow or sleet	Thunder head	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall											
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29									
Konkan																																						
Dahanu . .	30.4	+0.2	35.1	7	21.0	+0.9	17.1	3,4,5	1.3	1.3	-1.3	1.3	24	0	0	19.2	13.5	+0.3	1	0	0	0	0	0	0	0	0	0	0									
Bombay (Colaba) . .	32.4	+2.3	39.7	8	22.8	+0.6	19.9	5	0	0.3	-1.0	0.3	23	0	-0.1	13.3	9.9	-1.7	1	0	0	0	0	0	0	0	0	0	0									
Bombay (Santa Cruz Aerodrome) . .	33.2	+2.0	39.9	18	20.7	+1.8	15.6	5	0	0	+1.3	0	..	0	-0.1	16.5	10.1	..	0	0	0	0	0	0	0	0	0	0	0									
Alibag . .	30.8	+1.1	38.4	8	21.4	+0.6	18.1	1	..	0.3	-0.2	0.3	23	0	-0.1	..	10.0	+0.3	1	0	0	0	0	0	0	0	0	0	0									
Harnai . .	29.2	+0.1	34.4	6	24.3	+0.5	21.4	12	0	0	0	0	..	0	0	19.4	15.2	-1.2	0	0	0	0	0	0	0	0	0	0	0									
Ratnagiri . .	31.2	..	36.6	6	22.9	..	18.8	1	0	0	-0.8	0	..	0	-0.1	0	0	0	0	0	0	0	0	0	0	0	0								
Devgad . .	31.4	+0.6	36.4	7	24.0	+0.1	20.4	4	0	0	-2.5	0	..	0	-0.2	19.0	14.8	-0.6	0	0	0	0	1	0	0	0	0	0	0									
Vengurla . .	32.0	..	37.4	7	22.2	..	18.6	4	0	0	..	0	..	0	..	(i)	(i)	..	0	0	0	0	1	0	0	0	0	0	0	0	0							
Maharashtra																																						
Nandurbar . .	37.2	..	41.2	27	22.2	..	18.4	11	0	0.5	..	0.5	23	0	..	8.1	7.2	..	1	0	0	2	0	0	0	0	0	0	0	0								
Jalgaon . .	37.6	..	42.3	28	20.0	..	13.4	4	0.8	0.8	-3.0	0.8	24	0	-0.5	13.8	12.3	..	1	0	0	0	0	0	0	0	0	0	0									
Malegaon . .	36.2	-0.2	40.2	28	17.9	+0.8	11.3	5	2.8	2.8	+0.8	2.8	24	1	+0.7	9.6	8.2	0	1	0	0	0	0	0	0	0	0	0	0									
Deolali . .	34.7	..	38.8	27	16.9	..	9.2	4	0	1.3	..	1.3	15	0	..	10.2	7.5	..	1	0	0	1	0	0	0	0	0	0	0	0								
Aurangabad . .	35.6	+0.1	39.0	27	20.3	+0.9	14.6	2	0	2.0	-3.1	2.0	10	0	-0.5	10.7	10.6	+0.6	1	0	0	1	0	0	0	0	0	0	0	0								
Aurangabad (Chikalthana Aerodrome) . .	35.2	..	38.7	28	17.6	..	12.8	9	0	0	..	0	..	0	..	12.6	9.9	..	0	0	0	0	0	0	0	0	0	0	0	0	0							
Khandala	0	0	..	0	..	0	0							
Ahmednagar . .	35.3	+0.1	39.1	27	18.7	+1.4	13.3	2	0	0	-5.3	0	..	0	-0.3	10.2	7.5	-1.0	0	0	0	0	0	0	0	0	0	0	0	0	0							
Parbhani . .	36.9	..	40.6	28	20.4	..	15.8	17	0	1.5	-5.4	1.0	16	0	-0.5	10.8	8.5	..	2	0	0	2	0	0	0	0	0	0	0	0	0							
Poona . .	35.7	-0.4	39.2	27	17.5	+1.0	11.2	4	0	2.5	+1.0	2.5	24	1	+0.8	5.8	3.8	-4.4	1	0	0	1	0	0	0	0	0	0	0	0	0							
Poona (Lohagaon Aerodrome) . .	34.7	..	38.3	27	18.1	..	11.2	2	0	0	..	0	..	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0						
Baramati . .	36.0	..	38.8	27,28	18.8	0	6.3	..	6.3	24	1	..	10.6	8.7	..	1	0	0	1	0	0	0	0	0	0	0	0	0	0						
Jeur . .	36.3	..	39.3	28	19.3	..	13.1	4	0.8	3.6	..	3.6	24	1	..	10.0	8.2	..	1	0	0	0	1	0	0	0	0	0	0	0	0	0						
Sholapur . .	36.5	-0.8	39.9	28	21.1	+0.4	15.3	1	0	14.2	+8.4	14.2	24	1	+0.5	10.6	8.2	-1.0	1	0	0	3	0	0	0	0	0	0	0	0	0	0						
Miraj . .	35.6	+0.3	38.1	28	19.2	+1.2	12.2	1	0	21.6	+17.8	21.6	24	1	+0.3	9.8	9.1	+0.6	1	0	0	1	0	0	0	0	0	0	0	0	0	0						
Kolhapur . .	35.0	-0.9	37.9	28	18.8	-0.1	13.4	1	0	43.9	+34.2	32.5	24	2	+1.3	11.1	9.5	-1.1	2	0	0	3	0	0	0	0	0	0	0	0	0	0						
Vidarbha																																						
Buldana . .	32.9	..	37.7	28	21.7	..	17.1	24	4.8	6.9	..	6.1	14	1	..	8.6	8.2	..	2	0	0	0	0	0	0	0	0	0	0	0	0	0						
Akola . .	36.8	-0.3	41.4	28	20.7	+1.8	14.7	5	0	0	-9.1	0	..	0	-0.7	8.4	6.6	+0.8	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0					
Amravati . .	36.6	+0.2	41.1	28	21.5	+0.7	17.9	14	0.8	3.9	-5.0	3.1	15	1	+0.2	11.0	9.2	+2.4	2	0	0	2	0	0	0	0	0	0	0	0	0	0						
Yeotmal . .	36.0	..	39.8	28	21.8	..	17.3	15	4.8	24.3	..	12.9	14	2	..	12.9	10.8	..	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0					
Nagpur . .	36.2	-0.3	40.7	28	19.1	-0.1	15.1	6	0.5	16.5	+1.3	10.9	14	2	+0.5	11.3	9.2	..	4	0	0	5	0	0	0	0	0	0	0	0	0	0	0					
Gondia . .	34.4	..	39.4	31	20.2	..	17.2	6,7	0	12.5	..	7.4	11	2	..	6.1	4.0	..	4	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0				
Brahmapuri . .	35.4	..	39.4	28	19.9	..	17.2	18	11.4	26.0	..	16.0	4	3	..	9.8	6.3	..	4	0	0	8	1	0	0	0	0	0	0	0	0	0	0	0	0			
Chanda . .	36.2	+0.9	40.2	28	20.5	+1.1	15.9	1	11.5	40.7	+21.1	31.7	14	3	+1.8	8.1	5.8	+1.9	3	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0			
Sironcha . .	36.5	..	40.0	27,28	22.6	..	19.3	18	13.7	29.4	..	15.7	3	4	..	7.2	5.4	..	4	0	0	8	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	
Coastal Andhra Pradesh																																						
Nellore . .	34.9	+0.3	38.9	29	24.0	+1.3	21.4	9	0	0	-4.3	0	..	0	-0.3	13.3	8.9	+2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Ongole . .	30.9	..	34.4	17	24.5	..	21.2	10	0	0	..	0	..	0	..	11.2	8.1	..	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rentachintala . .	37.7	+0.3	41.1	29	24.0	-0.2	20.6	15	10.0	10.0	+7.7	10.0</																										

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—MARCH, 1958.
(PHALGUNA 10, 1879—CHAITRA 10, 1880 SAKA)

Division and station	Air temperature in °C								Rainfall in millimetres						No. of rainy days (2.5 mm. or more)	Wind speed, Km. per hour	Weather phenomena—No. of days with												
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall	Light squall	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Madras State																													
Palayamcottai	33.1	..	35.9	29	25.1	..	23.6	21	20.8	21.8	-4.6	20.8	26	1	-1.0	11.0	8.7	..	2	0	0	1	0	0	0	0	0	0	0
Tuticorin	30.6	..	33.3	29	25.3	..	23.7	5	0	24.8	..	14.6	26	2	..	18.6	15.8	..	2	0	0	0	0	0	0	0	0	0	0
Pamban	30.4	-1.0	31.6	30.31	25.9	+1.1	23.3	4	23.0	23.0	+4.7	20.2	16	1	-0.4	8.6	8.0	-0.9	3	0	0	0	0	0	0	0	0	0	
Mathurai	35.7	+0.5	37.7	30	24.1	+1.6	21.2	19	10.2	40.2	+22.4	30.0	24	2	+1.0	6.2	5.1	-0.4	2	0	0	0	0	0	0	0	0	0	
Nagapattinam	30.8	-0.4	35.6	29	25.8	+1.2	23.5	19	0	3.0	-17.1	2.4	23	0	-1.0	15.8	15.8	+5.7	2	0	0	0	0	0	0	0	0	0	
Tiruchirapalli	35.6	-0.2	37.9	30	24.1	+1.8	21.1	19	7.3	9.1	0	4.6	15	1	+0.3	8.6	8.8	+1.2	4	0	0	1	0	0	0	0	0	0	
Coimbatore	34.1	-1.1	36.7	27	22.9	+1.7	20.7	9	0	3.6	-9.1	3.6	14	1	+0.1	8.6	7.3	+3.3	1	0	0	1	0	0	0	0	0	0	
Coimbatore (Peela-medu Aerodrome)	35.2	..	37.3	28	22.5	..	19.6	9	0	0	..	0	..	0	..	14.3	13.0	..	0	0	0	0	0	0	0	0	0	0	
Salem	36.6	-0.1	38.9	28	23.2	+1.3	19.5	9	18.6	18.8	+6.3	12.8	24	2	+1.1	7.1	10.9	+3.7	3	0	0	0	0	0	0	0	0	0	
Kallakurichi	36.6	..	39.1	30	23.6	..	19.8	9	3.6	3.6	..	3.6	24	1	..	9.0	7.2	..	1	0	0	1	0	0	0	0	0	0	
Cuddalore	31.8	+0.5	36.3	29	24.0	+1.4	21.7	21	0	0	-17.5	0	..	0	-0.6	12.3	8.4	+1.8	0	0	0	0	0	0	0	0	0	0	
Vellore	35.4	-0.8	38.8	29	22.9	+1.9	17.9	9	1.8	1.8	-5.1	1.8	25	0	-0.5	10.5	8.9	+3.9	1	0	0	0	0	0	0	0	0	0	
Madras	33.6	+0.6	36.9	29	24.3	+1.9	21.4	9	0.8	1.2	-6.2	0.8	25	0	-0.4	15.9	11.0	+0.4	2	0	0	0	0	0	0	0	0	0	
Madras (Nungambakkam)	32.1	..	35.3	21	23.1	..	20.8	9	..	0	..	0	..	0	..	6.5	..	0	0	0	0	0	0	0	0	0	0	0	
Coastal Mysore																													
Karwar	30.5	..	..	..	22.3	..	18.6	2	0	0	0	0	..	0	0	15.9	11.4	..	0	0	0	0	0	0	0	0	0	0
Honavar	31.4	-0.8	33.4	25	22.7	-0.2	18.8	2	0	0	-0.3	0	..	0	0	5.3	3.7	-1.4	0	0	0	1	0	0	0	0	0	0	
Mangalore	31.7	-0.3	37.3	7	24.7	+0.4	22.2	1	0	0	-5.3	0	..	0	-0.3	13.1	10.1	+2.2	0	0	0	0	0	0	0	0	0	0	
Mangalore (Bajne Aerodrome)	33.2	..	37.7	7	23.4	..	20.9	14	0	0	..	0	..	0	..	..	..	..	0	0	0	1	0	0	0	0	0	0
Mysore (North)																													
Bidar	34.4	-0.5	37.3	28,29	21.8	-0.3	18.2	24	3.1	12.7	+2.0	7.6	24	2	+0.8	13.6	12.0	+2.0	2	0	0	0	0	0	0	0	0	0	
Gulbarga	36.7	-0.6	39.4	30	22.1	+0.7	17.9	2	0	11.8	+2.4	11.8	24	1	+0.2	12.4	10.5	+1.3	1	0	0	1	0	0	0	0	0	0	
Bijapur	36.3	+0.2	39.0	20	21.8	+0.9	18.3	2	0	16.8	+11.5	16.8	24	1	+0.4	7.6	6.1	-0.3	1	0	0	0	0	1	0	0	0	0	
Belgaum	33.2	-1.0	35.6	31	18.2	+0.6	12.9	2,3	0	0	-10.4	0	..	0	-0.9	8.3	5.5	+0.2	0	0	0	0	0	0	0	0	0	0	
Belgaum (C.T.O.)	..	..	..	..	18.1	0	13.6	2,3	0	0	-10.4	0	..	0	-0.9	10.5	7.4	+0.7	0	0	0	0	0	0	0	0	0	0
Belgaum (Sambre Aerodrome)	32.8	..	36.0	28	18.7	..	13.0	3	13.0	14.0	..	14.0	24	1	..	15.5	13.7	..	1	0	1	0	0	0	0	0	0	0	
Gadag	35.8	+0.5	38.3	31	21.2	+0.8	17.5	1	0	7.1	+1.5	6.3	25	1	+0.3	8.5	8.0	+0.1	2	0	0	2	0	0	0	0	0	0	
Raichur	36.4	-0.5	39.8	29	24.3	+1.1	19.4	24	0	0	-3.6	0	..	0	-0.4	5.7	5.7	-3.2	0	0	0	0	0	0	0	0	0	0	
Mysore (South)																													
Bellary	36.2	-1.3	38.4	30	23.7	+1.3	20.4	24	0	3.2	-2.1	2.2	25	0	-0.6	7.4	5.3	0	2	0	0	1	0	0	0	0	0	0	
Chitaldrug	34.3	-0.6	36.2	28	22.1	+0.8	19.2	4	0	15.8	+11.5	15.8	25	1	+0.6	7.3	6.3	0	1	0	0	2	0	0	0	0	0	0	
Shimoga	35.1	..	37.1	28	19.5	..	13.3	13	0	3.0	..	7.2	26	1	..	6.9	4.6	..	2	0	0	1	9	0	0	0	0	0	0
Balehonnur	31.2	+0.4	33.3	17	18.2	+1.1	16.4	3,4	..	29.8	-1.7	26.3	16	1	-0.8	..	..	..	3	0	0	0	0	0	0	0	0	0
Hassan	32.9	-0.2	34.9	28	19.3	+2.0	17.3	6	0	6.6	-2.8	6.6	31	1	+0.4	7.1	6.6	+1.5	1	0	0	2	1	0	0	0	0	0	
Mysore	33.4	-0.9	34.7	27,28	20.4	+0.6	17.8	6	3.6	16.0	+3.1	10.0	25	2	+1.2	10.3	9.0	+1.6	3	0	0	3	0	0	0	0	0	0	
Bangalore (Central Observatory), Bangalore (Aerodrome)	32.3	-0.1	34.7	27	20.1	+2.0	17.2	8	0	3.8	-6.4	3.8	3	1	+0.2	10.5	9.5	+2.3	1	0	0	2	0	0	0	0	0	0	
Kerala																													
Kozhikode	32.7	+0.4	33.7	9	25.1	+0.6	23.2	3	0	73.8	+56.5	73.8	23	1	+0.2	16.7	13.7	+3.1	1	0	0	2	0	0	0	0	0	0	
Palghat	37.1	..	39.2	26	24.8	..	22.9	14	5.3	29.3	..	11.6	29	3	..	10.8	9.0	..	4	0	0	5	0	0	0	0	0	0	
Fort Cochin	31.4	+0.3	33.1	9	25.8	+0.2	21.8	3	0	13.7	-37.4	12.1	15	1	-1.8	13.2	9.4	+0.5	2	0	0	0	0	0	0	0	0	0	
Cochin (Naval Air Station), Alleppey	32.3	..	34.4	9	25.1	..	23.2	27	0	62.6	..	19.1	27	5	..	10.7	6.8	..	5	0	0	4	0	0	0	0	1	0	
Punalur	35.7	..</																											

TABLE II.—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—MARCH, 1958.
 (PHALGUNA 10, 1879—CHAITRA 10, 1880 SAKA)

Division and station	Air temperature in °C								Rainfall in millimetres								No. of rainy days, (2·5 mm. or more)		Wind speed, Kms. per hour.		Weather phenomena—No. of days with								
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall		
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
I																													
Hill Stations (excluding Kashmir)—(Contd.)																													
Nainital	16·6	..	21·7	28	7·8	..	1·7	15	23·9	45·9	..	16·8	30	3	..	9·6	6·5	..	6	0	0	0	0	0	0	0	0	0	
Tapoban	17·4	..	26·1	27	..	..	..	..	..	43·7	..	20·3	30	2	..	..	..	..	7	..	..	..	..	..	..	..	..	..
Badrinath									closed during winter months.																				
Lokpal (R)																													
Jamuna Chetty	..	..	..	..	..	..	..	..	..	66·5	..	38·3	30	5	..	..	..	..	5	..	..	..	..	..	..	..	..	..
Mussooree	18·1	+2·7	23·7	26	8·8	+1·7	1·8	4	1·5	20·5	-36·9	7·6	30	4	+0·3	10·0	8·5	+0·9	5	0	0	4	0	0	0	0	0	0	
Kharsali	..	..	..	..	..	..	..	..	..	55·9	..	39·4	30	2	..	..	..	..	2	..	..	..	..	..	..	..	..	..
Rana	..	..	..	..	..	..	..	..	..	54·6	..	38·1	30	2	..	..	..	..	2	..	..	..	..	..	..	..	..	..
Simla	15·4	+1·5	20·7	28	7·3	+0·9	-1·1	4	10·8	48·5	-11·4	19·6	30	4	-0·7	5·5	4·2	-2·2	9	4	0	4	0	0	0	0	0	0	
Dharampore	..	..	..	..	..	..	..	..	..	59·0	+11·0	15·0	4	5	+2·1	..	..	..	6	..	..	..	..	..	..	..	..	..
Kyelang	..	..	..	..	..	..	..	..	..	77·9	-19·6	26·4	29	7	-0·5	..	..	..	10	..	..	..	..	..	..	..	..	..
Gondia	..	..	..	..	..	..	..	..	..	89·1	..	26·7	29	8	..	..	..	..	8	..	..	..	..	..	..	..	..	..
Kothi	..	..	..	..	..	..	..	..	..	142·5	..	34·5	29	10	..	..	..	..	11	..	..	..	..	..	..	..	..	..
Koksar	..	..	..	..	..	..	..	..	..	64·8	..	22·9	4	4	..	..	..	..	4	..	..	..	..	..	..	..	..	..
Dalhousie	18·0	..	25·1	28	8·3	..	-0·6	4	23·6	82·2	-16·1	22·9	12	7	+1·1	3·8	5·4	..	7	0	0	0	0	0	0	0	0	0	
Dharamshala	22·1	..	27·2	28	12·5	..	6·2	4	29·2	91·3	..	22·0	4	9	..	8·7	6·9	..	9	0	3	6	0	0	0	0	0	0	
Abu	26·8	+2·0	32·2	27	17·1	+1·0	8·9	4	0	0	-4·3	0	..	0	-0·5	9·4	9·2	+1·0	0	0	0	0	0	0	0	0	0	0	
Pachmarhi	29·8	+0·9	34·6	28	14·7	-0·5	9·6	1·3	0·8	4·6	-9·6	2·8	12	1	-0·3	7·3	5·2	-0·4	3	0	0	7	0	0	0	0	0	0	
Mahabaleshwar	27·9	-0·1	31·0	9,10,11	16·2	-0·8	10·1	4	0·8	1·3	-3·0	0·5	7,24	0	-0·4	11·0	11·2	+0·6	3	0	0	2	0	0	0	0	0	0	
Nandi Hills	..	..	..	..	..	..	..	..	..	3·8	..	3·8	28	1	..	..	..	..	1	0	0	0	0	0	0	0	0	0
Mercara	28·3	-0·7	33·8	19	17·4	+1·0	15·6	23	0	1·2	-18·1	1·0	31	0	-1·6	9·6	8·7	+3·7	1	0	0	0	0	0	0	0	0	0	
Kodaikanal	19·1	+0·1	21·3	28	10·2	+0·1	8·5	6	7·1	185·6	+139·6	67·3	15	9	+5·9	13·7	13·0	-0·2	9	0	0	10	4	0	0	0	0	0	
Ootacamund	21·4	+0·3	23·3	22	8·1	-0·7	5·0	10	85·2	108·5	-76·0	96·2	29	3	+0·4	5·8	3·3	-2·0	5	0	0	3	0	0	0	0	0	0	
Coonoor	23·0	+0·3	24·9	28	12·9	+1·6	9·9	19	..	109·1	+26·8	40·6	26	5	+2·2	..	4·6	-1·0	6	0	0	2	0	0	0	0	0	0	
Sikkim																													
Thangu	..	..	..	..	..	..	..	..	..	94·5	..	12·7	3	11	..	..	..	..	22	..	..	..	..	..	..	..	..	..
Chungthang	..	..	..	..	..	..	..	..	..	30·0	..	7·4	4·5	5	..	..	..	..	7	..	..	..	..	..	..	..	..	..
Lachen	17·3	..	18·9	19	-4·3	..	-6·7	19,22, 23	..	122·6	..	15·2	14	18	20
Tibet																													
Yatung (Chumbi)	13·4	+2·5	15·8	18	-2·8	-0·3	-7·1	10	..	101·3	+49·0	30·5	28	10	+4·6	..	..	..	11	0	0	0	0	0	0	0	0	0
Lhasa	11·7	..	15·0	19	-1·9	..	-7·3	17	..	2·5	..	2·5	21	1	..	..	6·2	..	1	0	0	0	0	0	2	0	0	0
Ceylon																													
Colombo	31·0	-0·6	35·1	7	23·9	+0·5	21·9	10	66·2	130·3	+21·6	66·0	12	5	-1·1	..	..	..	9	0	0	3	0	0	0	0	0	0
Trincomalee	31·0	-0·1	34·6	28	25·5	+1·0	23·6	13	28·1	37·5	-72·3	23·4	13	3	+0·3	..	..	..	7	0	0	2	0	0	0	0	0	0
Batticaloa	30·0	..	32·0	28	24·3	..	22·3	19	41·6	71·6	..	31·5	12	4	..	..	..	..	11	0	0	1	0	0	0	0	0	0
Hambantota	31·2	+0·7	33·3	7	24·3	+1·0	22·7	5	4·8	16·7	-71·2	8·1	16	2	-3·0	..	..	..	5	0	0	2	0	0	0	0	0	0
Mapnar	32·0	..	33·6	31	25·1	..	23·1	19	31·0	37·7	..	22·1	13	1	..	..	..	..	7	0	0	0	0	0	0	0	0	0
Hydrometeorological Observatories Damodar Catchment																													
Bokaro	33·9	..	38·9	30	17·2	..	11·8	7	4·2	18·7	..	14·3	4	2	..	10·5	6·3	..	2	0	0	5	0	0	0	0	0	0	
Hazaribagh	30·6	..	36·3	27	17·5	..	11·9	7	1·8	10·4	..	8·9	4	1	..	5·1	2·6	..	3	0	0	0	0	0	0	0	0	0	
Tilaiya	32·4	..	38·0	29	20·0	..	15·0	6,9	4·6	11·5	..	10·2	4	1	..	13·0	5·3	..	2	0	0	3	0	0	0	0	1	1	
Ramgarh	34·4	..	40·1	29	16·3	..	11·2	6,7	6·6	29·5	..	20·1	4	2	..	6·8	3·2	..	2	0	0	7	0	1	0	0	0	0	
Panchet Hills	35·3	..	40·9	29	19·7	..	15·1	7	8·1	24·9	..	24·4	4	2	..	12·6	8·4	..	3	0	0	4	0	1	0	0	0	0	
Durgapur	35·3	..	40·0	29,30	20·7	..	15·6	6	0	6·9	..	6·9	4	1	..	13·0	8·9	..	1	0	0	0	0	0	0	0	0	0	
Asansol	18·5	..	16·2	4	1	3
Dhanwar	5·3	..	5·3	1	1	1
Dumri	10·7	..	10·2	4	1	2
Bishnugarh	14·7	..	13·7	4	1	2
Chandwa	28·5	..	24·1	4	2	3
Maithon	..	..	..	..	..</																			

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—MARCH, 1958.
(PHALGUNA 10, 1879—CHAITRA 10, 1880 SAKA)

Division and station	Air temperature in °C								Rainfall in millimetres						No. of rainy days. (2.5 mm. or more)	Wind speed, Kms. per hour.	Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean min. in mm	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.3 mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Hydrometeorological Observatories (Contd.)																												
Narbada Catchment																												
Punasa	36.8	..	41.4	28	18.6	..	13.7	2	0	9.9	..	9.9	23	1	..	..	..	..	1	0	0	0	0	0	0	0	0	0
Bagra Tawa	36.1	..	41.4	28	17.3	..	12.0	7	0	0.8	..	0.8	23	0	..	..	..	..	1	0	0	0	0	0	0	0	0	0
Thikri	37.3	..	41.4	27	19.6	..	14.0	1	..	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0
Sabarmati Catchment																												
Jhadol	32.3	..	37.5	28	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	0	0	0
Sainwara (Surajgarh) Bikrami	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0	..	..	..	..	..	..	..	..	..
Tarpal	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0	..	..	..	..	..	..	..	..	..
Kotra Cantonment	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0	..	..	..	..	..	..	..	..	..
Dharoi	36.2	..	41.3	27	18.3	..	9.7	2	0	0	..	0	..	0	..	..	..	..	0	..	..	..	..	..	..	..	..	..
Ganga Catchment																			6	0	0	2	2	0	0	0	0	0
Mukhim	19.2	..	24.4	28	7.2	..	1.6	4	6.1	45.8	..	33.3	30	3	..	..	..	..	5	0	0	0	0	0	0	0	0	0
Tchri	28.7	..	34.2	28	..	..	..	..	3.6	37.4	..	29.0	30	3	..	..	..	..	5	0	0	0	0	0	0	0	0	0
Gandak Catchment																			7	..	..	..	..	..	..	..	..	..
Gorkha	25.6	..	29.5	27	15.5	..	10.1	1	20.8	41.6	..	14.2	1	4	..	..	..	..	8	..	..	..	..	..	..	..	..	..
Pokhara	26.9	..	30.2	27	13.6	..	10.1	1	37.1	48.9	..	24.4	11	6	..	..	..	..	6	..	..	..	..	..	..	..	..	..
Nawakot	28.3 (f)	..	32.3	27	15.2	..	9.9	5	14.0	17.8	..	10.4	31	2	..	..	..	..	5	..	..	..	..	..	..	..	..	..
Jomosom	15.0 (d)	..	20.0	27	0.9	..	-1.1	5	2.3	25.6	..	15.2	4	2	..	..	..	..	9	..	..	..	..	..	..	..	..	..
Timure	21.6	..	25.1	26,27	8.6	..	5.1	17	28.2	73.2	..	19.1	29	9	..	..	..	..	4	..	..	..	..	..	..	..	..	..
Gogra Catchment (Trans Himalayan Region)	(e)	..	27.3	28	..	..	..	..	3.1	27.5	..	18.5	4	3	..	..	..	..	5	..	..	..	..	..	..	..	..	..
Gogra Catchment	(d)	..	23.7	27	9.9	..	1.6	1	1.3	70.4	..	49.3	30	3	..	..	..	..	3	..	..	..	..	..	..	..	..	..
Dandeldhura	18.5	..	23.7	27	9.9	..	1.6	1	1.3	70.4	..	49.3	30	3	..	..	..	..	5	..	..	..	..	..	..	..	..	..
Munsiyari	..	..	..	..	..	..	..	..	..	69.9	..	23.4	30	5	..	..	..	..	4	..	..	..	..	..	..	..	..	..
Sallyana	..	..	..	..	..	..	..	..	3.0	17.8	..	9.4	5	3	..	..	..	..	4	..	..	..	..	..	..	..	..	..
Butwal	32.5	..	36.6	23	19.3	..	13.4	6	5.0	10.6	..	5.1	30	3	..	..	..	..	4	..	..	..	..	..	..	..	..	..
Bagmati Catchment																			5	0	0	5	1	0	0	0	1	0
Katmandu	25.2	..	29.0	26	6.3	..	2.7	5	10.5	16.6	..	8.4	31	2	..	3.2	1.7	..	4	..	..	..	..	..	..	..	..	..
Kosi Catchment																			5	0	0	5	1	0	0	0	1	0
Chautara	(b)	25.1	..	27.9	22,23	12.7	..	7.7	5	9.4	16.5	..	8.4	31	2	..	..	..	4	..	..	..	..	..	..	..	..	..
Okhaldunga	21.7	..	24.6	28	10.6	..	6.3	5	2.1	3.7	..	1.3	31	0	..	6.1	4.2	..	4	0	0	2	0	0	0	0	0	0
Barahkshetra	32.1	..	35.6	28	18.1	..	14.3	3	3.8	3.8	..	2.5	29	1	..	11.0	7.4	..	2	0	0	2	0	0	0	0	0	0
Angbung	25.7	..	29.1	28	13.9	..	9.3	4	..	20.3	..	8.4	28	2	..	..	..	..	6	..	..	..	..	..	..	..	..	..
Taplejung	20.4	..	23.6	22	10.2	..	5.9	5	15.5	27.6	..	14.5	29	4	..	..	..	..	5	0	0	7	0	0	0	0	0	0
Taplethok	27.9	..	31.0	19	13.9	..	11.6	1	..	126.1	..	37.1	26	8	..	..	..	..	11	..	..	..	..	..	..	..	..	..
Wallungchung Gola*																			1	..	..	..	..	..	..	..	..	..
Bhojpur	21.7	..	24.5	26	12.7	..	9.4	1	0	1.8	..	1.8	29	0	..	..	..	..	3	..	..	..	..	..	..	..	..	..
Chainpur	26.0	..	29.0	24	15.4	..	10.6	1	12.0	12.0	..	5.6	24	3	..	..	..	..	2	..	..	..	..	..	..	..	..	..
Tista Catchment																			7.1	7.6	..	10	0	0	14	0	0	0
Gangtok	21.2	..	23.1	26	9.2	..	6.1	5	15.8	65.0	..	15.3	23	7	..	..	..	..	2	..	..	..	..	..	..	..	..	..
Geyzing	23.5	..	27.9	29	10.6	..	8.7	1.6	4.8	20.3	..	13.7	31	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(b) Mean of 29 days. (d) Mean of 27 days. (f) Mean of 25 days.

*Data not available.

(e) Mean of 26 days.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—MARCH, 1958. (PHALGUNA 10, 1879—CHAITRA 10, 1880 SAKA)

Division and station	Hour of observation I.S.T.			Mean pressure in millibars												Mean temperature in °C			Cloud amount (Okta)			Wind speed (Kms. p.h.)			No. of observations									
				At mean sea level or height in g.p.m. of nearest standard isobaric level.																														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	Calm	Variable				
Bay Islands Maya Bandar . .	0830	23	1012.7	1010.0	..	27.6	24.5	22.9	28.3	75	..	2.5	..	1.2	0	0	6	2	3	0	0	0	0	1	0	25	0							
	1730	"	1010.1	1007.5	..	28.6	24.5	22.5	27.6	70	..	3.2	..	4.6	0	0	21	0	13	1	1	0	0	3	3	10	0							
Long Island . .	0830	33	1013.0	1009.3	..	28.3	25.3	23.9	29.7	77	..	2.2	..	0.2	0	0	2	0	0	0	0	0	0	2	0	0	29	0						
	1730	"	1010.2	1006.5	..	29.1	24.9	22.9	28.1	69	..	4.0	..	0.5	0	0	4	1	0	0	0	0	0	0	1	2	27	0						
Port Blair . .	0530	79	1011.2	1002.2	..	23.8	23.1	22.7	28.4	94	..	2.8	..	2.6	0	0	13	2	3	1	0	0	0	3	2	18	0							
	0830	"	1012.7	1003.9	+0.8	30.0	25.2	22.9	28.3	66	-6	2.3	-0.6	5.5	0	0	25	4	14	5	1	0	0	1	0	0	6	0						
Car Nicobar . .	1130	"	1011.4	1002.7	..	31.9	25.5	22.5	27.5	58	..	2.4	..	10.8	0	0	31	0	18	11	1	0	0	0	1	0	1	19	0					
	1730	"	1010.1	1001.2	..	28.1	24.7	23.2	28.6	75	..	3.4	..	5.1	0	0	22	0	9	7	1	1	0	0	2	1	1	9	1					
Nancowry . .	0830	26	1012.5	1009.6	..	29.5	26.0	24.6	30.8	76	..	5.8	..	1.1	0	0	6	0	0	0	0	0	0	5	0	1	25	0						
	1730	"	1009.3	1006.4	..	28.4	25.7	24.7	28.6	80	..	5.3	..	0.2	0	0	2	0	1	0	0	0	0	1	0	1	3	1						
Kondul . .	0830	8	1012.2	1011.2	..	28.1	26.3	25.4	32.4	85	..	4.6	..	5.9	0	0	21	4	11	6	0	0	0	0	0	0	10	0						
	1730	"	1009.3	1008.4	..	28.0	26.4	25.7	33.1	87	..	4.5	..	4.1	0	0	16	4	9	2	0	0	0	1	0	0	15	0						
Assam (Including Manipur, Tripura)																																		
Pasighat . .	0830	..	1014.3	996.2	..	21.3	16.6	13.0	15.0	60	..	4.4	..	25.9	0	23	8	8	1	0	0	0	0	0	0	22	0	0						
	1730	..	1009.9	992.7	..	22.8	18.2	14.9	17.3	62	..	4.9	..	12.5	0	7	19	4	0	0	0	0	0	0	1	21	5	0						
Digboi . .	0830	20.3	17.2	15.0	17.2	72	..	3.2	..	3.1	0	0	31	12	1	5	1	3	2	2	0	0	0	0	0					
	1730	26.2	20.0	16.1	18.3	55	..	4.1	..	3.0	0	0	31	11	5	3	1	1	4	6	0	0	0	0	0					
Dibrugarh . .	0830	106	1013.9	1001.7	+0.6	23.0	18.3	15.1	17.2	62	-14	3.5	-0.7	2.7	0	0	23	2	9	11	1	0	0	0	0	0	8	0						
	1730	"	1009.2	997.1	..	24.7	19.4	16.1	18.3	59	..	4.6	..	1.6	0	0	13	3	7	3	0	0	0	0	0	0	18	0						
Dibrugarh (Mohanbari Aerodrome)	0230	111	1011.1	998.1	..	17.1	15.4	14.1	16.2	83	..	3.5	..	1.8	0	0	7	0	3	2	0	0	0	2	0	0	24	0						
	0530	"	1012.3	999.3	..	16.1	15.0	14.0	16.2	86	..	4.1	..	2.1	0	0	11	0	6	2	1	0	1	0	1	20	0							
North Lakhimpur . .	0830	"	1014.2	1001.4	..	22.5	17.8	14.4	16.6	62	..	3.6	..	6.2	0	0	25	2	18	5	0	0	0	0	0	0	6	0						
	1130	"	1012.3	999.7	..	26.7	18.8	13.4	15.5	45	..	3.7	..	7.3	0	0	27	2	21	4	0	0	0	0	0	0	4	0						
Sibsagar . .	0830	97	1013.9	1003.4	+1.5	23.3	18.7	15.5	17.6	63	-18	2.3	-2.7	3.1	0	0	21	6	12	1	0	0	1	0	0	1	10	0						
	1730	"	1009.4	998.1	..	25.7	19.9	16.3	18.7	59	..	3.1	..	2.8	0	0	18	11	6	0	1	0	0	0	0	0	13	0						
Jorhat . .	0530	90	1011.8	1001.3	..	15.9	15.5	13.2	17.0	97	..	1.7	..	..	..	..	0	1	1	0	0	0	0	0	0	1	28	0		
	0830	"	1013.5	1003.1	..	22.6	19.0	16.6	19.0	70	..	2.1	..	..	..	..	7	7	1	0	0	0	1	0	0	14	0			
Golaghat . .	1130	"	1011.8	1001.7	..	27.8	20.4	15.7	17.9	49	..	2.7	..	..	..	..	14	12	1	0	1	0	1	1	1	12	0			
	1730	"	1008.5	998.3	..	24.7	19.7	16.5	18.9	61	..	2.1	..	5.6	0	1	18	13	6	0	0	0	0	0	0	0	27	0						
Gohpur . .	0830	..	..	..	..	22.2	18.7	15.8	18.5	71	..	4.1	..	0.4	0	0	4	0	0	0	0	0	0	0	0	26	0			
	1730	28.5	22.6	18.4	22.8	60	..	3.9	..	0.5	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0					
Tezpur . .	0830	20.7	18.2	16.5	18.8	78	3.6	0	0	31	1	16	1	10	1	0	0	0	2	0	0	0					
	1730	27.5	21.0	16.9	19.6	55	4.5	0	0	31	1	22	4	4	0	0	0	0	0	0	0	0					
Tezpur (P.B.O.)	0830	79	1014.0	1004.9	+0.7	22.4	18.1	15.2	17.1	65	-6	1.7	-0.8	5.2	0	0	31	0	11	13	2	0	0	0	0	0	0	0	0	0				
	1730	"	1008.3	999.5	..	29.0	21.2	16.6	18.9	48	..	1.4	..	2.5	0	0	19	0	5	11	0	0	0	2	1	12	0							
Majbat	0230	78	1010.9	1001.7	..	19.6	17.0	15.0	17.2	77	..	1.7	..	2.8	0	0	15	5	4	4	1	1	0	0	0	16	0							
	0530	"	1011.7	1002.5	..	17.8	16.1	14.9	17.0	83	..	2.3	..	1.8	0	0	16	4	10	1	0	0	1	0	0	15	0							
Chaparmukh	0830	..	..	..	..	24.4	18.4	12.3	16.1	57	..																			

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—MARCH, 1958 (PHALGUNA 10, 1879—CHAITRA 10, 1880 SAKA)

Division and station	Hour of observation I.S.T.			Mean pressure in millibars			Mean temperature in °C			Cloud amount (Oktas)			Wind speed (kms.p.h)			No. of observations												
	Height of barometer above mean sea level in metres	At mean sea level or height of nearest standard isobaric level	At station level	Departure from normal			Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Mean amount	Departure from normal	Mean wind speed, kms. per hour	N	NE	E	SE	S	SW	W	NW	Calm	Variable			
				5	6	7																						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
Assam (Including Manipur, Tripura)— (Contd.) Gauhati (Bhorjor Aerodrome)	0230	49	1010.2	1004.5	..	17.2	14.9	13.1	15.3	78	..	1.1	..	2.2	0	0	15	0	7	1	1	2	4	0	0	16	0	
	0530	..	1011.2	1005.4	..	15.8	14.1	12.8	14.8	86	..	1.7	..	2.7	0	1	14	2	4	1	1	4	3	0	0	16	0	
	0830	..	1013.1	1007.4	..	23.6	17.1	12.8	14.3	52	..	0.2	..	5.1	0	0	22	2	13	4	0	1	1	1	3	3	0	0
	1130	..	1011.6	1006.0	..	29.3	19.1	11.7	13.8	35	..	1.9	..	8.0	0	0	31	8	13	3	0	0	1	1	3	3	0	0
	1730	..	1008.3	1002.8	..	29.0	18.9	11.1	13.7	35	..	3.1	..	3.2	0	0	20	5	3	0	0	1	1	7	3	11	0	
	2330	..	1011.2	1005.4	..	19.2	15.9	13.4	15.4	70	..	1.7	..	3.7	0	0	20	1	4	0	0	0	6	9	0	0	11	0
Rangiy . . .	0830	22.9	18.3	15.2	17.3	63	..	1.2	..	11.0	0	2	27	1	2	15	9	0	0	1	1	2	0	0
Gcalpar . . .	0830	38	1012.2	1007.7	..	20.9	17.5	15.0	17.3	69	..	1.6	..	2.9	0	0	25	2	6	4	4	1	4	2	2	6	0	
Dhubri . . .	0830	35	1013.2	1009.2	+1.0	23.5	19.5	16.4	19.3	69	+3	0.9	-0.9	2.6	0	0	17	0	14	1	0	1	0	1	0	14	0	
Dhubri (Rupesi Aerodrome) . .	1730	..	1008.4	1004.5	..	27.3	20.7	15.9	18.9	56	..	0.8	..	1.5	0	0	14	0	2	0	0	0	8	2	2	17	0	
Agartal . . .	0530	..	..	..	..	17.0	14.7	12.9	15.0	78	..	1.8	..	1.6	0	0	12	0	3	7	0	1	0	0	1	19	0
Tura . . .	0830	370	1014.1	972.1	..	22.8	21.7	21.0	25.0	90	..	2.3	..	3.4	0	0	27	0	1	15	6	2	1	2	0	4	0	
Silchar . . .	0830	..	1009.5	968.8	..	29.8	29.0	28.5	39.5	94	..	2.0	..	5.3	0	0	31	0	1	2	3	9	15	1	0	0	0	
Silcher (Kumbhigram Aerodrome) . .	0230	16	1009.7	1007.9	..	19.8	17.8	16.3	18.8	81	..	2.0	..	4.7	0	0	20	2	1	6	9	2	0	0	0	11	0	
Imphal . . .	0530	..	1010.6	1008.7	..	18.7	17.5	16.8	19.2	90	..	2.8	..	5.2	0	0	19	0	1	3	14	0	1	0	0	12	0	
Haflong . . .	0830	..	1012.5	1010.4	..	25.8	20.8	17.8	20.6	62	..	2.2	..	6.9	0	1	28	2	0	0	13	7	6	1	0	2	0	
Lumding . . .	1130	..	1011.4	1009.6	..	31.7	21.1	14.2	16.5	37	..	2.2	..	8.5	0	0	29	3	3	0	3	6	8	5	1	2	0	
Maida . . .	0830	..	1008.3	1006.5	..	29.7	20.1	13.3	15.6	39	..	3.0	..	4.8	0	1	21	5	2	0	2	2	8	3	0	9	0	
Sub-Himalayan West Bengal Cooch Behar	0830	29	1013.8	1010.5	+0.6	23.3	18.0	14.9	16.4	60	-12	1.6	-1.1	1.3	0	0	13	0	7	4	1	0	1	0	0	18	0	
Jalpaiguri . . .	1730	..	1008.9	1005.6	..	29.9	20.9	15.4	17.5	43	..	1.3	..	0.8	0	0	8	0	0	0	0	0	6	1	1	23	0	
Bagdogra . . .	0530	97	1010.7	999.5	..	17.1	15.3	13.6	15.5	75	..	1.1	..	9.1	0	0	31	1	3	26	0	0	0	1	0	6	0	
Maida . . .	0830	..	1012.4	1001.4	..	22.9	18.0	14.6	15.6	60	..	1.3	..	9.1	0	0	29	0	3	20	5	0	0	0	1	2	0	
0830	..	1012.1	1000.0	..	29.5	20.3	14.2	16.3	41	..	1.5	..	6.6	0	0	29	0	2	6	6	7	2	5	1	2	0		
0830	..	1007.7	996.9	..	27.9	20.3	15.3	17.4	48	..	1.4	..	2.6	0	0	15	0	0	3	1	0	1	9	1	16	0		
0830	..	1016.1	924.4	..	10.5	8.9	8.1	10.2	86	..	1.0	..	1.3	0	0	10	2	1	0	0	1	5	0	1	21	0		
0830	..	1014.9	926.0	..	19.7	13.8	8.3	11.6	59	..	1.5	..	1.6	0	0	15	0	0	1	8	5	1	0	0	16	0		
0830	..	1010.8	924.2	..	26.4	16.6	7.0	11.9	26	..	1.7	..	17.5	0	13	17	0	0	0	0	2	9	6	12	1	1	0	
0830	..	1009.1	922.1	..	24.7	14.8	6.4	9.8	33	..	2.4	..	9.6	0	0	31	0	0	0	0	0	1	9	20	1	0	0	
0830	..	1014.3	924.1	..	15.3	12.2	9.1	12.1	67	..	1.1	..	2.5	0	0	17	1	0	0	0	0	4	7	1	4	14	0	
0830	682	1012.8	937.1	..	22.4	15.8	10.7	12.3	49	..	1.2	..	10.2	0	1	30	4	3	1	1	7	14	1	0	0	0		
0830	..	1008.3	933.6	..	24.9	16.4	9.9	11.8	41	..	2.3	..	18.3	0	8	23	0	0	0	0	0	9	22	0	0	0	0	
0830	149	1013.9	996.7	..	22.8	17.8	14.4	16.4	60	-16	1.7	..	3.3	0	0	14	0	4	6	3	0	0	1	0	0	17	0	
0830	..	1008.2	991.5	..	29.8	20.0	13.4	15.5	39	..	3.7	..	2.2	0	0	12	0	0	1	2	3	4	1	1	19	0		
Gangetic West Bengal Dum Dum	0830	43	1013.0	1007.9	..	23.7	17.7	13.4	18.2	54	..	1.7	..	8.7	0	0	27	0	4	16	4	0	1	2	0	4	0	
0830	..	1011.7	1006.8	..	29.9	19.3	11.6	13.9	34	..	1.7	..	11.0	0	2	29	0	4	12	7	3	3	1	0	0	17	0	
0830	..	1008.1	1003.3	..	28.3	19.4	13.1	15.4	41	..	1.8	..	2.6	0	0	14	6	4	0	1	0	1	2	0	0	9	0	
0830	83	1013.3	1003.6	+1.3	20.3	16.2	13.0	15.0	64	-6	0.8	-0.7	3.7	0	0	22	14	3	5	0	0	0	0	0	0	9	0	
0830	..	1008.2	998.9	..	30.3	18.9	9.9	12.7	30	..	0.9	..	6.3	0	0	26	5	3	2	2	1	7	4	2	5	0		
0230	131	1009.5	994.3	..	18.2	15.2	13.0	14.8	73	..	1.9	..	4.1	0	1	22	14	4	0	0	0	0	2	1	2	8	0	
0530	..	1010.5	995.2	..	15.1	13.6	12.3	14.6	84	..	1.6	..	3.0	0	0	25	8	6	7	1	0	0	0	2	1	6	0	
0830	..	1012.3	997.4	..	24.4	17.7	12.7	15.0	51</																			

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—MARCH, 1958 (PHALGUNA 10, 1879—CHAITRA 10, 1880 SAKA)

Division and station	Hour of observation I.S.T. (Contd.)	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs.			Relative humidity %			Departure from normal			(Oktas)			Wind speed (Kms. p.h.)			No. of observations										
			At station level			At mean sea level or height in g.p.m. of nearest standard isobaric level			Dry bulb			Wet bulb			Dew point			Mean amount			Departure from normal			Mean wind speed, Kms. per hour			Wind direction							
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	Calm	Variable		
Gangetic West Bengal— (Contd.)	Dum Dum—(Contd.)	1730	6	1008.5	1007.8	..	31.9	21.5	14.6	16.9	37	..	2.7	..	3.3	0	1	19	2	1	0	0	4	5	3	5	11	0	0	0				
		2330	"	1010.9	1010.2	..	22.9	20.3	18.7	22.0	78	..	1.4	..	4.5	0	0	18	0	0	0	2	10	6	0	0	13	0	0	0				
Calcutta		0830	"	1012.6	1011.9	+0.8	27.7	21.3	17.2	20.2	55	-21	1.7	-0.5	4.6	0	0	22	4	0	1	0	0	12	3	2	9	0	0	0	0			
		1130	"	1011.7	1011.0	..	33.6	21.2	12.7	14.9	30	..	1.6	..	5.0	0	0	27	6	1	1	1	2	6	3	7	4	0	0	0	0			
Barrackpore		1730	7	1010.7	1009.9	..	32.1	20.9	13.0	15.8	33	..	2.5	..	3.3	0	1	16	1	0	0	0	3	8	1	4	14	0	0	0				
		0530	"	1012.9	1012.1	..	27.1	21.0	17.1	19.9	56	..	1.9	..	7.5	0	0	28	0	2	2	0	1	8	10	5	3	0	0	0	0			
		0830	"	1011.7	1011.0	..	32.9	20.5	11.9	13.9	30	..	1.8	..	12.0	0	0	29	4	4	1	0	0	4	8	8	2	0	0	0	0			
Saugor Island		1730	"	1008.5	1007.7	..	31.3	20.5	12.8	15.3	34	..	2.7	..	5.8	0	1	19	2	0	1	0	4	3	5	5	11	0	0	0	0			
		2330	"	1010.9	1010.1	..	22.8	19.7	17.5	20.6	74	..	1.3	..	4.9	0	0	20	0	0	0	1	4	12	2	1	11	0	0	0	0			
		0830	3	1012.2	1011.9	+0.4	27.2	24.1	22.7	27.7	77	+4	1.5	-1.5	15.4	0	10	21	5	4	0	0	5	10	5	2	0	0	0	0	0			
Sandheads		1730	"	1008.7	1008.4	..	28.6	25.2	23.4	29.5	75	..	2.5	..	17.4	0	10	20	3	2	0	0	3	13	9	0	0	1	0	0	0			
		0530	10	1010.8	1009.7	..	26.4	24.5	23.6	29.2	84	..	1.7	..	18.5	0	11	20	1	0	0	0	0	0	15	11	4	0	0	0	0	0		
		0830	"	1013.0	1011.9	+0.8	27.7	24.9	23.5	29.3	78	+4	1.4	-0.8	12.5	0	3	26	0	3	0	0	2	12	6	6	2	0	0	0	0			
		1130	"	1012.6	1011.4	..	28.5	25.1	23.4	29.3	75	..	1.6	..	12.9	0	5	26	2	4	0	0	0	1	12	8	4	0	0	0	0	0		
		1730	"	1009.8	1008.7	..	28.8	25.6	24.1	30.1	76	..	1.9	..	13.2	0	7	19	0	0	0	1	12	12	1	0	5	0	0	0	0			
		2330	"	1011.4	1010.3	..	26.9	25.0	24.0	30.1	85	..	..	..	15.1	0	4	25	0	1	0	1	6	18	1	2	0	0	0	0	0
Contai		0830	11	1012.7	1011.5	..	28.3	21.6	19.0	20.5	55	..	1.5	..	4.6	0	0	29	7	1	0	1	5	7	5	3	2	0	0	0	0			
		1730	"	1009.0	1007.8	..	28.6	23.3	20.5	24.4	63	..	2.1	..	6.3	0	0	26	1	0	0	1	20	3	1	0	5	0	0	0	0			
Midnapore		0830	45	1012.8	1007.7	+1.1	28.7	19.4	12.6	15.3	40	-19	1.3	-0.5	2.4	0	0	20	9	3	0	0	2	5	1	0	11	0	0	0	0			
		1730	"	1008.3	1003.3	..	33.3	20.2	10.4	13.2	27	..	1.3	..	2.7	0	0	23	3	8	1	0	3	2	2	4	8	0	0	0	0	0		
Purulia		0830	255	1013.5	984.9	..	26.2	17.0	9.0	12.0	36	..	2.7	..	3.4	0	0	29	2	0	0	0	3	5	10	9	2	0	0	0	0			
		1730	"	1008.5	980.6	..	31.9	18.4	6.3	10.0	23	..	2.8	..	(a)	0	0	25	2	0	0	0	0	4	3	4	12	6	0	0	0	0		
Burdwan		0830	32	1013.3	1009.7	+1.7	28.1	20.8	15.7	18.8	52	-11	2.0	-0.3	1.1	0	0	9	2	1	0	0	0	2	3	1	21	0	0	0	0	0		
		1730	"	1008.4	1004.8	..	32.4	22.4	15.3	19.1	41	..	0.9	..	0.1	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0			
Krishnagar		0830	15	1012.9	1011.2	+1.2	27.5	19.6	14.3	16.7	47	-16	1.1	-1.3	3.1	0	0	27	3	0	0	3	0	6	3	12	0	4	0	0	0	0		
		1730	"	1008.6	1007.0	..	32.3	20.6	12.5	21.8	32	..	1.2	..	1.7	0	0	16	0	0	0	0	0	7	0	9	0	15	0	0	0	0		
Asansol		0230	126	1010.1	995.6	..	22.7	17.7	14.0	16.8	60	..	1.5	..	2.2	0	0	12	0	0	0	0	0	0	1	3	8	19	0	0	0	0		
		0530	"	1010.7	996.2	..	21.4	17.2	14.0	17.0	64	..	2.3	..	3.0	0	0	16	0	0	0	1	1	0	0	7	7	15	0	0	0	0		
		0830	"	1012.7	998.4	+1.3	26.8	19.9	15.0	17.5	51	+5	2.6	+0.8	5.9	0	1	28	0	0	0	1	0	1	13	14	2	0	0	0	0	0		
		1130	"	1011.6	997.6	..	32.9	22.1	15.1	17.8	36	..	2.6	..	9.0	0	1	28	1	0	1	0	0	0	1	11	15	2	0	0	0	0	0	
		1730	"	1008.1	994.1	..	32.2	21.9	15.2	16.0	38	..	2.8	..	6.4	0	0	25	0	0	0	0	0	0	0	2	11	12	6	0	0	0	0	0
		2330	"	1010.8	996.4	..	24.8	18.8	14.3	16.7	52	..	1.7	..	3.6	0	0	22	1	0	1	0	0	0	1	2	5	12	9	0	0	0	0	0
Suri		0830	77	1012.8	1004.1	..	27.1	16.6	6.8	10.3	31	..	1.9	..	9.3	0	1	29	0	1	2	0	0	2	5	13	7	1	0	0	0	0	0	
		1730	"	1008.9	1000.4	..	32.7	17.9	2.0	8.6	18	..	2.8	..	10.0	0	2	29	3	1	1	1	2	3	12	8	0	0	0	0	0	0	0	
Berhampore		0830	19	1012.2	1010.1	+0.4	25.1	18.0	12.8	14.6	48	-12	1.2	-1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		1730	"	1008.1	1006.0	..	32.5	20.1	10.6	13.2	28	..	1.4	..	0.4	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
Orissa Baripada		0830	54	1013.2	1007.1	..	26.0	19.6	15.1	17.6	53	..	1.8	..	2.3	0	0	0	24	8	5	0	1	1	2	2	5	7	0	0	0	0	0	0
		1730	"	1008.8	1002.8	..	33.1	22.3	15.3	18.0	37	..	2.6	..	2.7	0	0	0	20	4	2	1	2	3	2	1	4	11	1	0	0	0	0	0
Balasore		0830	20	1012.7	1010.4	+0.7	28.1	20.6	15.6	18.2	49	-18	2.2	+0.3	4.9	0	0	0	24	7	6	0	0	4	5	0	2	7	0	0	0	0	0	0
		1730	"	1008.7	1006.5	..	29.5	22.5	18.4	21.7	53	..	3.5	..	5.9	0	1	27	0	0	0	11	15	2	0	0	3	0	0	0	0	0	0	
Chandbali		0830	6	1013.2	1012.5	+1.3	27.3	22.9	20.6	24.1	68	-8	2.1	-0.5	6.8	0	1	30	5	0	1	1	4	10	4	6	0							

(a) Mean of 30 days

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—MARCH, 1958 (PHALCUNA 10, 1879—CHAITRA 10, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs.	Relative humidity %	Cloud amount (Oktas)	Mean wind spread, Kms. per hour	No. of observations								Wind direction							
			At station level			Departure from normal							Departure from normal		Wind speed (Km. p.h.)		Wind direction											
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Orissa—(Contd.)																												
Koraput . . .	0830	913	1534.0	913.5	..	21.6	16.2	11.9	14.7	57	..	1.8	..	4.1	0	0	31	3	1	0	1	20	5	0	1	0	0	
	1730	"	1526.7	911.4	..	27.3	16.6	8.5	10.9	31	..	3.1	..	4.7	0	0	31	9	2	2	9	2	1	2	4	0	0	
Titilagarh. . .	0830	211	1013.5	989.7	..	25.9	18.3	12.8	15.0	47	..	2.3	..	2.4	0	0	26	0	2	3	5	6	3	1	0	11	0	
	1730	"	1008.2	985.1	..	34.6	22.8	15.6	18.1	35	..	1.2	..	2.6	0	0	26	9	10	2	1	1	1	1	5	0		
Bolangir . . .	0830	190	1012.9	991.6	..	29.4	20.1	14.0	15.7	45	..	1.5	..	7.5	0	0	30	0	9	0	13	0	5	1	1	1	1	
	1730	"	1008.9	987.9	..	32.1	20.8	13.3	15.1	33	..	1.2	..	7.1	0	0	29	1	23	0	2	0	1	0	1	2	1	
Angul . . .	0830	139	1013.7	997.9	+1.6	24.2	18.1	13.4	15.7	53	-7	2.2	-0.1	3.7	0	0	26	4	1	0	0	1	1	11	8	5	0	
	1730	"	1008.7	993.3	..	32.7	19.6	9.3	12.1	28	..	2.8	..	3.6	0	0	28	2	12	0	3	1	1	1	8	3	0	
Keonjhar . . .	0830	1520	1010.5	959.2	..	25.9	17.8	11.3	14.4	44	..	2.6	..	3.9	0	0	28	3	4	4	1	4	1	3	8	3	0	
	1730	"	1005.8	955.4	..	30.3	18.3	3.6	12.3	30	..	2.8	..	5.2	0	0	30	4	0	4	0	1	2	10	12	1	0	
Sambalpur . . .	0830	148	1013.4	997.0	+1.7	24.4	19.1	15.2	17.8	59	+8	3.0	+1.6	0.9	0	0	13	2	4	2	1	0	2	1	1	18	0	
	1730	"	1008.9	992.6	..	32.2	20.7	12.2	15.0	32	..	0.8	..	0.6	0	0	10	2	1	2	0	0	2	0	3	21	0	
Jharsuguda . . .	0230	230	1010.8	984.5	..	20.9	17.5	14.9	17.5	71	..	2.1	..	3.7	0	0	21	6	4	0	0	1	0	0	9	10	1	
	0530	"	1011.6	985.2	..	19.6	16.5	15.1	16.4	75	..	2.7	..	4.6	0	0	24	3	8	1	0	3	1	2	5	7	1	
	0830	"	1013.6	967.5	..	24.1	18.1	13.6	15.7	55	..	3.5	..	4.8	0	0	20	8	4	0	0	1	1	2	4	11	0	
	1130	"	1012.6	987.0	..	30.2	19.3	10.9	13.7	34	..	3.0	..	5.4	0	0	26	1	6	0	1	4	4	2	7	5	1	
	1730	"	1008.5	983.1	..	31.2	19.3	10.6	12.7	32	..	2.7	..	5.1	0	0	21	1	2	3	0	7	3	1	4	10	0	
	2330	"	1011.7	984.5	..	23.1	17.9	13.9	16.9	59	..	2.2	..	3.7	0	1	17	3	1	1	0	1	1	2	9	13	0	
Chota Nagpur																												
Jamshedpur . . .	0830	129	1013.4	998.6	+1.5	24.1	18.2	13.7	16.3	54	+2	2.6	+0.8	4.6	0	0	24	0	0	1	0	0	2	13	8	7	0	
	1730	"	1008.4	994.1	..	31.9	20.3	12.1	14.3	33	..	2.8	..	4.7	0	1	22	2	0	1	1	0	4	11	4	8	0	
Jamshedpur (P.B.O.) . . .	0530	145	1011.6	994.7	..	19.8	16.5	13.8	16.1	70	..	2.7	..	2.1	0	0	14	2	0	0	0	1	3	3	5	17	0	
	0830	"	1013.4	996.8	..	24.4	18.1	13.4	15.5	53	..	2.9	..	4.5	0	0	26	0	0	0	0	1	5	9	11	5	0	
	1130	"	1012.1	995.9	..	31.2	19.3	9.7	12.7	30	..	1.3	..	5.9	0	0	29	0	0	0	0	2	0	12	7	8	2	
	1730	"	1008.4	992.3	..	31.3	19.7	10.6	13.5	33	..	3.5	..	3.5	0	0	20	0	1	1	1	1	3	6	7	11	0	
	2330	"	1011.3	994.6	..	23.9	18.0	13.6	16.1	56	..	2.3	..	3.2	0	1	18	2	1	0	2	2	2	3	7	12	0	
Chaibasa . . .	0830	226	1013.2	987.6	+1.5	25.2	20.7	18.1	19.6	65	+7	3.1	+1.4	1.7	0	0	16	0	2	0	0	0	14	0	0	15	0	
	1730	"	1008.4	983.4	..	31.3	23.8	19.5	23.4	52	..	3.3	..	1.8	0	0	14	6	3	0	0	0	10	0	1	17	0	
Ranchi . . .	0830	655	1013.6	940.2	+1.4	24.4	17.6	12.8	14.9	52	+13	3.2	-1.6	0	0	5	2	0	1	0	0	1	0	1	26	0		
	1730	"	1009.0	937.4	..	26.7	18.7	13.1	16.3	46	..	2.9	..	0	0	3	0	1	0	0	0	1	1	0	28	0		
Ranchi (C.W.O.) * .	0530	652	1011.0	938.1	..	19.8	14.1	9.0	12.0	53	..	3.1	..	4.0	0	0	14	0	0	0	0	1	3	7	3	7	0	
	† 0830	"	1012.0	939.9	..	23.0	13.3	8.6	11.6	44	..	3.6	..	3.7	0	0	14	0	0	0	0	3	2	4	5	6	0	
	1130	"	1011.5	940.5	..	28.1	16.4	7.5	10.1	29	..	3.0	..	7.8	0	1	30	4	0	0	0	6	3	7	11	0		
	†† 1730	"	1007.8	937.2	..	28.6	16.6	7.0	10.1	27	..	3.5	..	9.7	0	1	25	6	0	0	0	3	2	4	11	1	0	
Daltonganj . . .	0830	221	1013.4	988.3	+1.2	24.5	17.9	12.8	15.1	51	-3	2.8	+1.6	2.0	0	0	14	0	0	2	5	0	1	4	2	17	0	
	1730	"	1008.3	983.9	..	31.2	18.9	8.5	12.1	27	..	3.2	..	3.6	0	0	27	6	0	2	1	0	1	12	5	4	0	
Hazaribagh . . .	0830	611	1012.8	945.1	+1.8	24.6	15.6	8.3	10.7	38	+2	2.9	+1.2	4.7	0	0	24	2	3	6	2	1	8	3	10	7	0	
	1730	"	1008.0	941.6	..	28.8	16.5	6.2	9.0	26	..	3.2	..	7.9	0	1	27	5	0	1	0	0	2	3	17	3	0	
Dhanbad . . .	0830	257	1012.6	983.6	..	26.9	17.2	8.9	12.2	35	..	3.2	..	5.9	0	0	31	3	0	0	0	1	4	19	4	0	0	
	1730	"	1007.9	979.6	..	31.5	18.3	6.5	10.5	24	..	3.4	..	7.3	0	0	31	2	1	0	0	4	0	17	7	0	0	
Bihar																												
Purnea . . .	0830	38	1012.6	1008.3	+1.1	24.8	16.6	9.5	12.0	41	-19	1.6	+0.2	4.7	0	0	29	2	3	6	2	1	4	10	1	2	0	
	1730	"	1007.7	1003.8	..	29.9	18.0	7.8	10.9	27	..	0.7																

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—MARCH, 1958 (PHALGUNA 10, 1879—CHAITRA 10, 1880 SAKA)

Division and station	Hour of observation I. S. T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars		Mean temperature in °C			Cloud amount (Oktas)		Wind speed (Km. p.h.)		No. of observations																
			At mean sea level or height in g.p.m. of nearest standard isobaric level		At station level			Departure from normal		Relative humidity %		Departure from normal		Mean wind speed, Kms. per hour		Wind direction												
			4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	N	NE	E	SE	S	SW	W	NW	Calm	Variable	
I	2	3																										
Bihar—(Contd.)																												
Gaya—Contd.	0830	116	1013.0	999.7	+1.4	25.9	17.1	9.8	12.3	39	-6	2.7	+1.3	8.5	0	0	29	0	1	0	1	3	13	9	2	2	0	
	1130	"	1012.3	999.4	..	32.5	18.7	6.9	10.1	22	..	2.0	..	14.0	0	4	26	4	0	0	3	0	1	7	15	1	0	
	1730	"	1008.6	995.6	..	32.8	18.5	5.9	9.5	20	..	2.3	..	14.4	0	7	24	7	2	0	1	0	0	3	18	0	0	
	2330	"	1011.6	998.2	..	23.8	15.6	8.4	10.8	39	..	2.2	..	3.8	0	0	13	0	1	1	0	0	2	5	4	18	0	
Jamui . . .	0830	82	1013.0	1003.9	..	26.4	18.6	12.7	15.1	44	..	2.3	..	4.4	0	0	29	1	1	7	2	2	0	2	14	2	0	
	1730	"	1008.5	999.3	..	33.0	21.0	12.9	15.2	29	..	1.7	..	7.0	0	0	27	0	0	0	0	0	0	0	7	20	4	0
Dumka . . .	0830	149	1013.7	995.2	+0.5	28.1	17.1	7.2	10.4	30	-14	2.0	+0.8	3.7	0	0	24	1	0	1	1	0	4	8	9	7	0	
	1730	"	1008.4	992.0	..	32.4	19.8	9.6	14.8	29	..	2.4	..	6.0	0	0	29	2	0	0	1	0	2	11	13	2	0	
Bhagalpur . . .	0530	49	1010.5	1004.5	..	21.2	15.3	10.0	12.8	51	..	1.4	..	4.1	0	0	19	0	1	2	2	2	6	6	0	12	0	
	0830	"	1012.7	1007.1	..	25.5	17.4	10.9	14.8	41	..	1.9	..	4.1	0	0	25	2	0	2	1	5	6	8	1	6	0	
	1130	"	1012.2	1006.7	..	31.6	19.7	10.4	13.2	29	..	2.0	..	9.8	0	3	27	1	2	2	0	0	4	15	6	1	0	
	1730	"	1008.3	1002.9	..	31.1	19.4	10.5	13.1	29	..	1.4	..	7.3	0	1	24	0	1	1	0	0	1	15	7	6	0	
	2330	"	1010.7	1005.2	..	25.3	16.7	9.4	12.1	38	..	0.8	..	5.1	0	0	23	1	0	2	2	0	2	13	3	8	0	
Sabour . . .	0830	37	1012.6	1008.3	+1.5	25.0	17.8	12.2	14.5	47	-3	2.5	+0.7	6.2	0	0	30	1	1	3	2	1	14	6	2	1	0	
	1730	"	1007.9	1003.7	..	31.7	20.4	12.1	14.6	32	..	1.8	..	8.2	0	2	28	4	0	1	0	0	1	3	21	1	0	
Uttar Pradesh (East)																												
Gonda . . .	0830	110	1012.5	1000.0	..	22.6	15.5	9.4	11.8	45	-3	1.1	-0.3	2.7	0	0	21	4	0	4	0	0	0	8	5	10	0	
	1730	"	1008.3	996.2	..	30.7	17.9	6.4	10.0	23	..	0.7	..	1.7	0	0	11	1	0	1	0	0	0	3	6	20	0	
Nautanwa . . .	0830	99	1012.4	1001.0	..	21.9	15.3	9.5	11.2	46	..	1.3	..	4.9	0	0	26	3	1	6	8	1	1	5	5	0		
	1730	"	1008.7	997.6	..	30.7	17.6	5.5	9.4	23	..	1.3	..	5.4	0	0	27	1	0	0	0	1	10	9	6	4	0	
Gorakhpur . . .	0830	"	1012.1	1003.2	+1.0	22.6	15.9	9.8	12.3	46	-6	1.6	+0.5	3.6	0	0	25	3	0	3	0	2	2	15	0	6	0	
	1730	"	1008.3	999.4	..	31.2	18.9	8.1	11.9	23	..	1.5	..	4.0	0	0	30	0	0	2	0	0	0	28	0	1	0	
Gorakhpur (P.B.O) . . .	0230	"	1009.7	1000.6	..	20.7	14.8	9.4	12.1	51	..	1.5	..	3.2	0	0	17	1	2	0	0	1	3	8	2	14	0	
	0530	"	1010.1	1001.0	..	18.4	14.0	9.9	12.3	58	..	1.3	..	4.1	0	0	19	3	2	0	0	1	3	7	3	12	0	
	1130	"	1011.8	1003.0	..	31.3	17.9	5.7	9.5	22	..	1.3	..	9.5	0	3	28	1	3	0	3	5	4	13	2	0	0	
	2330	"	1010.5	1001.4	..	22.5	16.3	11.2	13.4	51	..	0.8	..	0	0	0	23	2	3	0	1	2	7	6	2	8	0	
Azamgarh . . .	0830	78	1011.9	1003.0	..	23.0	17.4	13.0	15.2	56	..	1.5	..	0	0	0	30	1	0	5	0	1	0	23	0	1	0	
	1730	"	1008.2	999.6	..	30.4	21.1	15.2	18.7	40	..	1.2	..	0.9	0	0	9	0	0	0	1	0	0	1	7	0	22	0
Ballia . . .	0830	64	1013.1	1004.8	..	23.4	16.3	10.4	12.5	46	..	2.3	..	5.4	0	0	27	0	2	0	0	4	16	4	1	4	0	
	1730	"	1008.0	1001.4	..	32.4	18.9	6.9	10.4	23	..	1.6	..	8.0	0	0	30	0	1	0	1	0	16	11	1	1	0	
Varanasi (Banaras) . . .	0830	76	1012.7	1004.0	+1.1	24.9	17.0	10.4	13.4	42	-6	1.7	+0.3	4.7	0	0	26	2	3	0	0	3	13	4	1	5	0	
	1730	"	1008.6	1000.1	..	32.2	18.6	7.0	10.4	23	..	1.1	..	7.6	0	0	31	3	0	0	0	5	11	2	9	0	1	
Varanasi (Banaras) (Babatpur Aerodrome) . . .	0530	85	1011.7	1001.7	..	18.2	13.9	9.9	12.8	61	..	1.8	..	5.6	0	0	27	1	1	2	1	3	14	4	1	4	0	
	0830	"	1013.7	1003.9	..	24.0	16.8	10.8	13.1	43	..	1.6	..	10.3	0	4	24	0	3	1	0	2	14	7	1	3	0	
	1130	"	1013.1	1003.5	..	31.2	19.5	10.8	13.1	30	..	1.5	..	13.9	0	8	22	1	1	2	0	4	6	11	5	1	0	
	1730	"	1009.7	1000.2	..	31.4	19.1	9.5	12.7	27	..	2.0	..	14.8	0	4	27	2	3	0	0	1	6	11	8	0	0	
	2330	"	1011.9	1002.1	..	22.1	15.7	10.3	12.3	49	..	1.7	..	5.4	0	0	26	0	1	0	4	2	11	5	3	5	0	
Allahabad (Bamrauli) . . .	0230	98	1010.6	999.3	..	20.6	14.5	8.9	12.6	50	..	1.5	..	5.1	0	1	22	1	1	1	2	2	8	7	1	8	0	
	0530	"	1011.1	999.7	..	19.0	13.8	9.0	11.9	55	..	1.0	..	4.4	0	0	26	1	2	1	3	5	9	4	5	0		
	0830	"	1013.4	1001.8	+1.3	24.3	16.0	8.7	11.6	39	-5	1.7	+0.1	7.6	0	0	26	0	2	2	1	5	10	4	5	8	0	
	1130	"	1012.8	1001.8	..	31.8	18.5	7.2	10.3	24	..	1.3	..	11.9	0	2	29	1	0	2	3	2	1	14	8	0	0	
	1730	"	1008.8	997.9	..	31.8	17.8	6.5	9.1	22	..	1.8	..	11.3	0	5	25	4	3	0	2	2	4	5	6	10	0	
	2330	"	1011.3	1000.0	..	23.1	15.6	8.9	11.5	43	..	1.3	..	4.1	0	2	19</											

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—MARCH, 1958 (PHALGUNA 10, 1879—CHAITRA 10, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas)	Wind speed (Km. p.h.)	No. of observations															
			At mean sea level	height in g.p.m. of the nearest standard Isobatic level	At station level	Dry bulb	Wet bulb	Dew point						N	NE	E	SE	S	SW	W	NW	Calm	Variable						
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
Uttar Pradesh (East) —Contd. Hardoi . . .	0830	142	1012.7	996.2	..	20.8	15.5	11.5	13.1	56	..	1.0	..	3.1	0	0	23	1	1	3	1	0	0	12	5	8	0		
Lakhimpur Kheri . .	0830	147	1013.2	996.1	..	19.8	14.5	10.0	12.5	55	..	0.8	..	2.9	0	0	24	0	3	2	0	1	0	18	0	7	0		
	1730	"	1008.5	992.2	..	31.0	18.1	8.4	10.7	26	..	0.5	..	2.3	0	0	22	0	1	0	0	0	1	20	0	9	0		
Bahraich . .	0830	124	1012.6	998.3	+1.7	22.6	17.0	12.8	14.5	55	-1	0.7	-0.5	4.3	0	0	23	5	1	1	1	0	1	1	8	6	8	0	
	1730	"	1008.7	994.8	..	30.5	19.8	12.8	14.8	37	..	1.3	..	2.1	0	0	20	0	1	1	0	1	1	11	5	11	0		
Uttar Pradesh (West) Orai . . .	0630	141	1014.2	998.1	..	25.0	17.2	11.3	13.4	43	..	1.5	..	5.3	0	0	30	1	5	0	6	1	6	5	9	1	0		
	1730	"	1009.7	994.0	..	32.4	20.4	11.1	14.1	29	..	0.9	..	5.1	0	0	31	5	4	1	2	0	0	2	17	0	0		
Jhansi . . .	0830	251	1013.4	984.4	+0.5	22.7	15.4	9.0	11.8	44	+7	1.8	+0.7	0.8	0	0	11	1	3	0	1	0	1	1	4	20	0		
	1730	"	1008.5	979.6	..	33.3	18.7	8.9	9.5	23	..	1.8	..	1.8	0	0	23	3	5	3	1	0	1	2	8	8	0		
Agra . . .	0830	169	1013.4	994.0	+1.3	22.7	15.1	8.6	11.3	42	-1	0.8	-0.9	1.7	0	0	14	0	1	2	1	5	2	2	17	0			
	1730	"	1009.3	990.6	..	32.4	17.5	4.2	6.9	18	..	1.0	..	3.2	0	0	21	1	0	2	1	0	3	4	10	10	0		
Agra (Aerodrome) . . (R)	0530	168																											
	0830	"																											
	(R)	1130	"																										
	(R)	1730	"																										
	(R)	2330	"																										
Mainpuri . . .	0830	157	1012.8	94.7	+1.1	21.9	15.7	10.8	12.7	51	+3	0.8	-0.8	1.6	0	0	17	0	0	1	4	0	0	11	1	14	0		
	1730	"	1008.3	990.7	..	32.3	19.4	9.3	12.2	26	..	0.7	..	1.5	0	0	17	0	0	1	0	0	0	14	2	14	0		
Aligarh . . .	0830	187	1012.8	991.3	..	20.3	14.4	9.4	12.1	52	+5	1.1	-0.3	3.8	0	0	24	1	0	6	0	0	0	14	3	7	0		
	1730	"	1009.4	988.5	..	30.8	17.5	5.6	8.9	22	..	1.8	..	6.6	0	0	24	5	0	0	1	1	0	14	3	7	0		
Bareilly . . .	0830	173	1012.5	992.6	+1.3	21.6	14.9	9.1	11.7	46	-14	1.0	-0.8	4.7	0	2	20	1	1	2	0	0	0	15	8	8	0		
	1730	"	1008.5	989.1	..	30.0	17.0	5.1	9.3	22	..	1.8	..	4.0	0	0	23	0	0	0	0	0	0	10	9	4	0		
Bareilly (P.B.O.) . .	0230	172	1010.3	990.4	..	20.0	..	..	..	..	..	1.4	..	7.3	0	0	27	4	0	3	1	0	0	8	12	1	0
	0530	"	1010.6	990.6	..	18.4	1.4	..	9.2	0	2	28	4	2	2	1	1	0	0	3	14	9	0	
	1130	"	1012.2	992.8	..	28.1	..	..	..	..	..	1.6	..	12.9	0	5	26	1	1	3	0	0	0	11	6	8	0
	2330	"	1010.9	991.2	..	22.4	..	..	..	..	..	0.8	..	6.1	0	0	23	2	1	2	1	0	0	11	6	8	0
Meerut . . .	0830	222	1013.1	987.7	+1.6	22.9	16.0	9.9	12.9	48	-9	0.5	-1.3	4.1	0	0	24	0	0	11	0	0	0	11	2	7	0		
Najibabad . . .	0830	270	1012.7	981.5	..	17.7	13.4	9.6	11.7	61	..	1.1	..	1.2	0	0	12	0	3	0	1	0	0	0	8	19	0		
	1730	"	1009.5	979.6	..	29.9	17.6	6.7	9.3	24	..	1.5	..	3.7	0	0	24	0	1	1	0	0	0	0	12	18	0		
Roorkee . . .	0830	274	1012.6	980.9	+0.8	17.8	13.3	9.1	11.7	59	-2	2.9	+1.0	1.2	0	0	13	0	0	0	1	0	0	1	0	24	5	0	
	1730	"	1008.7	978.2	..	28.6	17.0	5.6	9.5	25	..	3.2	..	2.5	0	0	26	0	0	0	1	0	0	1	1	4	15	0	
Dehra Dun . . .	0530	682	1012.4	984.5	..	14.1	10.2	6.4	9.5	62	..	1.6	..	3.7	0	1	15	4	6	0	0	0	0	1	1	4	15	0	
	0830	"	1013.0	986.2	+1.6	18.5	12.6	7.5	9.9	50	-8	1.4	-1.4	1.9	0	0	19	1	2	0	2	1	5	3	5	12	0		
Punjab (India) (Including Delhi) New Delhi	1130	"	1012.0	986.8	..	25.5	14.7	6.0	8.9	31	..	2.0	..	6.7	0	0	29	0	2	0	0	0	8	11	5	2	0		
	1730	"	1008.7	984.1	..	25.9	15.2	5.9	8.7	29	..	2.2	..	3.8	0	0	28	2	1	0	0	0	4	6	10	5	3		
Hissar . . .	2330	"	1012.7	935.7	..	17.6	12.3	7.5	10.7	53	..	2.2	..	5.8	0	2	19	3	16	0	0	0	1	0	1	10	0		
	0230	216	1011.6	986.6	..	19.4	14.4	10.0	12.4	57	..	1.4	..	9.2	0	0	24	5	2	3	1	0	0	2	11	7	0		
	0530	"	1011.6	986.4	..	17.2	13.4	10.0	12.2	64	..	0.8	..	8.1	0	0	24	5	2	3	1	0	1	6	8	7	0		
	0830	"	1013.3	988.2	+1.2	20.2	14.6	9.7	12.0	53	+5	1.2	-1.0	12.2	0	2	27	0	1	0	7	1	2	0	8	11	1	0	
	1130	"	1013.1	988.7	..	28.1	18.0	9.8	12.3	34	..	1.9	..	16.0	0	7	23	1	0	0	1	2	2	1	1	2	18	0	
Karnal . . .	1730	"	1009.3	985.2	..	30.0	17.9	7.4	10.5	27	..	2.2	..	16.6	0	6	25	3	2	2	2	1	0	0	0	1	15	5	0
	2330	"	1012.1	987.2	..	21.6	15.3	10.0	12.8	50	..	1.6	..	9.8	0	1	25	5	5	0	0	0	0	0	0	0	0	0	
	0530	221	1012.1	986.2	..	15.6	12.4	9.3	12.0	67	..	0.8	..	3.4	0	0	24	3	2	2	3	2	5	4	3	7	0		
	0830	"	1013.6	987.9	+1.2	18.8																							

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—MARCH, 1958 (PHALGUNA 10, 1879—CHAITRA 10, 1880 SAKA)

Division and station	Hour of observation I. S. T.			Mean pressure in millibars			Mean temperature in °C			Cloud amount (Okta)			Wind speed (km. p.h.)			No. of observations													
																Wind direction													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
Punjab (India) Including Delhi)—Contd.																													
Ambala (Aerodrome)	0530	273	1011.4	979.3	..	14.8	11.7	8.7	11.5	69	..	1.8	..	7.5	0	3	17	1	0	3	1	0	0	3	12	11	0		
	0830	"	1012.7	981.0	..	18.8	13.7	9.0	9.1	53	..	2.5	..	10.8	0	4	25	0	4	2	4	1	0	2	16	2	0		
	1130	"	1012.5	981.7	..	27.3	16.4	6.3	9.9	30	..	2.8	..	18.0	0	11	19	1	2	0	6	1	0	6	14	1	0		
	1730	"	1009.2	978.6	..	28.7	16.5	4.7	8.7	24	..	3.6	..	20.4	0	15	16	1	1	3	3	0	1	9	13	0	0		
	2330	"	1012.1	980.3	..	18.3	13.5	9.3	11.8	58	..	2.4	..	9.9	0	4	21	1	1	1	4	1	0	2	15	6	0		
Chandigarh	0830	347	1012.1	972.5	..	20.5	13.8	8.7	10.5	47	..	0.7	..	..	0	0	6	0	0	1	2	0	0	0	3	25	0
Ludhiana	1730	"	1009.1	970.8	..	28.6	16.6	6.0	9.0	27	..	0.7	..	..	0	0	25	0	2	0	7	0	4	1	11	6	0
Ferozepur	0830	200	1013.0	989.3	..	16.9	14.5	12.4	14.1	75	..	1.0	..	1.8	0	0	14	1	7	0	1	0	0	1	4	17	0		
Amritsar	1730	"	1009.9	987.4	..	28.4	20.3	14.7	17.2	45	..	2.1	..	3.1	0	0	26	5	2	0	3	0	0	0	16	5	0		
Pathankot	0830	344	1013.6	973.9	..	12.4	10.7	9.0	11.4	81	..	2.0	..	6.4	0	1	23	7	3	3	1	0	1	5	4	7	0		
Pathankot (Aerodrome)	0830	312	1013.3	977.5	..	25.0	16.6	9.2	12.2	38	..	2.6	..	8.6	0	0	28	6	2	6	3	2	0	3	6	3	0		
Himachal Pradesh	Bilaspur	0830	493	1015.2	957.9	..	17.3	12.8	8.6	11.2	55	..	3.0	..	2.5	0	0	23	0	3	14	6	0	0	0	8	0		
Mandi	1730	"	1011.1	972.7	..	26.4	16.8	8.8	11.4	35	..	5.0	..	5.0	0	0	27	0	2	2	0	0	0	7	15	1	0		
Jammu and Kashmir	Srinagar	0530	1587	1531.0	844.4	..	5.3	4.4	3.6	7.8	89	..	4.4	..	1.4	0	0	14	1	2	1	2	2	2	1	3	17	0	
	0830	"	1542.8	845.6	+2.7	6.6	5.4	4.2	8.1	85	0	5.1	+0.2	2.9	0	0	24	0	2	1	10	3	2	3	7	0			
	1130	"	1545.0	845.9	..	10.8	7.6	4.5	8.1	66	..	5.1	..	3.9	0	0	27	2	2	3	1	3	2	5	9	4	0		
	1730	"	1519.4	843.3	..	12.3	8.1	3.7	8.1	57	..	5.4	..	5.3	0	0	24	2	0	2	2	0	1	11	6	7	0		
Gulmarg (R)	(R)	0830	2655																										
Leh	1730	"																											
Skardu	(R)	0830	2288																										
Gilgit	(R)	0830	1491																										
Misgar	(R)	0830	3106																										
Jammu		0830	"																										
Rajasthan (West)	Sri Ganganagar	0530	177	1011.7	991.0	..	15.6	12.3	9.2	11.6	67	..	0.7	..	1.8	0	0	15	2	6	2	3	0	1	1	0	16	0	
	0830	"	1013.3	992.7	..	17.6	13.2	9.1	11.7	61	+3	2.0	-0.4	3.0	0	0	19	1	6	3	2	2	3	1	1	12	0		
	1130	"	1013.3	993.3	..	27.2	17.1	8.7	11.6	33	..	1.9	..	4.2	0	0	26	3	7	4	1	5	2	2	2	5	0		
	1730	"	1009.5	989.7	..	31.1	17.7	7.1	9.5	25	..	2.0	..	3.0	0	0	24	4	2	0	0	1	3	14	7	0			
Churu		0830	291	1013.9	930.1	..	18.8	13.4	8.2	11.3	53	..	1.3	..	2.2	0	0	14	1	0	5	2	3	2	0	1	17	0	
Bikaner		0830	224	1013.5	987.6	-1.5	19.2	12.3	4.8	8.9	41	-2	0.7	-1.1	3.7	0	0	25	1	4	3	9	3	1	1	6	0		
	1730	"	1009.0	984.5	..	32.5	17.6	3.2	8.4	17	..	1.2	..	6.7	0	0	29	4	4	3	7	0	5	1	6	0			
Bikaner (P. B. O.)		0530	224	1011.8	985.6	..	17.2	13.3	9.7	12.2	63	..	1.3	..	2.8	0	0	10	0	3	2	1	2	0	1	21	0		
	1130	"	1012.7	987.7	..	30.6	21.0	14.8	16.7	39	..	1.3	..	6.9	0	1	24	4	4	1	3	7	0	5	1	6	0		
	2330	"	1011.8	986.3	..	23.5	16.7	11.4	13.6	48	..	1.0	..	7.0	0	1	20	7	8	1	0	1	2	0	2	10	0		
Jaisalmer		0830	242	1012.3	984.7	..	21.6	17.6	14.2	16.1	66	..	0.8	..	5.1	0	1	19	5	6	0	1	5	3	0	0	11	0	
	1730	"	1008.5	982.0	..	33.6	..	..	..	..	..	0.7	..	7.5	0	2	28	8	3	0	0	7	8	0	4	1	0
Phalodi		0830	234	1013.4	986.0	..	20.9	14.2	7.9	11.1	45	..	1.5	..	9.9	0	1	28	1	3	6	5	9	4	1	0	2	0	
	1730	"	1009.7	984.0	..	33.3	20.5	11.0	13.8	27	..	1.3	..	12.4	0	4	26	6	4	0	0	1	7	7	5	1	0		

(R) Register not received. * Observations for 30 days.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—MARCH, 1958 (PHALGUNA 10, 1879—CHATRA 10, 1880 SAKA)

Division and station	Hour of observation I. S. T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars				Mean temperature in °C			Vapour pressure in mbs.	Relative humidity %	Cloud amount (Octas)	Wind speed (Km. p.h.)	No. of observations															
			At station level				Departure from normal							Wind direction															
			At mean sea level or height in g. p.m. of nearest standard isobaric level	Dry bulb	Wet bulb	Dew point	At station level	Departure from normal	Mean amount					N	NE	E	SE	S	SW	W	NW	Calm	Variable						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	26	27	27	28		
Rajasthan (West)—Contd. Jodhpur . . .	0230	224	1011.5	985.9	..	22.9	13.2	2.4	7.2	27	..	0.5	..	9.2	0	1	23	6	10	0	0	0	1	4	3	7	0		
	0530	"	1011.6	985.8	..	20.6	12.2	2.8	7.5	32	..	0.4	..	9.8	0	0	28	4	18	0	0	0	4	2	0	3	0		
	0830	"	1013.5	987.8	+2.6	22.3	13.1	2.8	7.7	30	-6	1.0	-1.0	7.5	0	0	22	2	13	3	0	0	2	1	1	9	0		
	1130	"	1013.2	988.2	..	31.0	17.0	3.1	8.4	19	..	1.2	..	12.1	0	3	26	1	4	3	8	4	4	2	3	2	0		
	1730	"	1009.0	984.5	..	34.1	17.7	1.5	6.7	13	..	2.0	..	11.9	0	2	27	5	3	1	2	0	6	9	3	2	0		
	2330	"	1011.8	986.3	..	25.5	14.5	3.0	7.5	24	..	0.4	..	9.9	0	1	24	4	8	0	0	0	3	7	3	6	0		
Barmer . . .	0530	194	1010.9	988.7	..	22.7	14.8	7.4	10.8	39	..	0.4	..	10.1	0	1	28	2	0	0	0	0	2	10	15	2	0		
	0830	"	1013.0	990.8	+1.3	23.4	15.6	8.5	11.4	40	-15	1.2	-0.4	8.3	0	0	31	5	1	1	1	2	2	7	12	0	0		
	1130	"	1012.8	991.2	..	32.3	18.9	7.8	11.0	23	..	1.2	..	11.5	0	1	30	1	6	3	7	3	4	4	3	0	0		
	1730	"	1008.8	987.5	..	34.5	19.3	6.8	9.8	19	..	2.2	..	11.0	0	2	29	3	4	1	3	4	7	6	3	0	0		
	2330	"	1011.4	989.5	..	27.4	16.4	6.4	9.3	27	..	0.5	..	10.2	0	0	31	3	0	0	0	0	2	8	8	10	0		
Rajasthan (East) Alwar . . .	0830	271	1013.5	982.3	..	21.1	16.0	11.9	14.3	39	..	1.3	..	2.0	0	0	13	2	2	0	2	1	1	1	4	18	0		
	1730	"	1009.0	979.2	..	31.6	20.3	14.1	15.8	37	..	3.2	..	5.5	0	0	21	3	1	0	1	2	2	4	6	10	2		
Sikar . . .	0830	433	1013.1	964.1	..	20.5	13.8	7.4	10.5	44	..	1.6	..	2.0	0	0	21	1	0	3	13	3	1	0	0	10	0		
	1730	"	1008.5	961.2	..	31.4	17.1	6.2	10.1	22	..	1.5	..	3.0	0	0	0	0	0	0	0	0	0	0	0	31	0		
Jaipur . . .	0830	436	1013.5	964.3	+0.9	22.6	15.1	8.1	11.0	41	-6	1.7	0	4.7	0	0	19	3	4	8	1	1	0	0	2	12	0		
	1130	"	1012.8	964.7	..	30.0	17.7	7.1	10.5	24	..	1.0	..	8.5	0	1	27	3	0	1	10	1	4	4	5	3	0		
Jaipur (Sanganer Aerodrome)	0230	390	1011.5	966.9	..	20.4	13.0	5.3	9.0	39	..	0.9	..	0	0	0	25	7	9	6	0	0	0	0	3	6	0		
	0530	"	1011.7	966.9	..	18.3	12.3	6.0	9.3	46	..	0.6	..	..	0	0	18	6	3	8	0	0	0	0	1	13	0
	0830	"	1013.2	968.9	..	22.6	14.8	7.6	10.5	40	..	1.3	..	..	0	0	13	2	1	8	1	0	0	0	1	18	0
	1130	"	1012.6	969.3	..	29.2	17.1	6.1	9.8	25	..	0.9	..	..	0	0	25	1	1	5	6	1	4	2	5	6	0
	1730	"	1008.3	965.7	..	31.4	17.5	4.3	9.1	20	..	2.1	..	..	0	0	26	1	0	0	2	1	3	3	16	5	0
	2330	"	1011.7	967.4	..	22.4	13.8	5.1	8.7	34	..	1.1	..	..	0	0	24	9	8	4	0	0	0	0	3	7	0
Dholpur . . .	0830	176	1012.6	992.4	..	23.0	16.9	12.0	14.0	53	..	1.8	..	4.7	0	0	26	1	3	1	2	3	2	5	9	5	0		
	1730	"	1008.7	989.2	..	32.1	21.4	13.5	17.0	57	..	2.2	..	7.5	0	0	29	12	1	1	0	1	2	11	2	0			
Ajmer . . .	0830	486	1013.5	958.8	+0.9	21.6	13.3	5.9	9.3	57	+1	0.8	-0.6	4.2	0	0	19	0	2	2	1	0	5	5	4	12	0		
	1730	"	1008.3	955.6	..	31.4	15.1	-0.1	5.7	13	..	2.5	..	10.3	0	0	30	2	3	0	0	1	9	9	6	1	0		
Kotah . . .	0530	257	1011.5	982.0	..	20.7	14.5	8.9	11.5	48	..	0.8	..	0.8	0	0	4	0	0	2	0	0	0	2	0	27	0		
	0830	"	1013.3	984.1	+0.9	24.1	15.2	6.8	9.9	54	0	0.5	-1.0	1.6	0	0	16	0	0	3	1	0	2	3	1	21	0		
	1130	"	1012.5	984.3	..	30.9	18.6	7.5	10.6	53	..	0.8	..	1.9	0	0	10	2	2	0	0	0	0	2	4	21	0		
	1730	"	1008.4	983.2	..	33.7	19.1	6.6	10.3	50	..	1.3	..	2.6	0	0	13	0	1	0	0	0	0	0	8	4	18	0	
	2330	"	1011.5	982.4	..	25.1	16.3	8.8	11.1	57	..	0.6	..	0.5	0	0	3	0	0	1	0	0	0	0	2	0	28	0	
Chambal . . .	0830	351	1013.5	973.7	..	23.2	15.0	8.0	10.3	59	..	0.6	..	1.9	0	0	14	4	1	0	1	2	1	4	1	17	0		
	1730	"	1007.8	969.4	..	32.9	21.1	13.1	14.9	32	..	3.0	..	6.3	0	0	31	8	1	1	0	0	6	10	5	0	0		
Jhawar . . .	0830	321	1013.4	976.9	+0.9	23.3	13.8	3.8	8.3	29	-7	1.0	-0.2	2.2	0	0	17	3	2	1	3	3	1	3	1	14	0		
	1730	"	1007.8	972.9	..	33.8	17.3	-0.9	6.2	11	..	2.0	..	5.5	0	0	27	4	4	1	4	0	2	3	9	4	0		
Udaipur . . .	0230	582	1012.9	946.8	..	17.4	13.0	9.2	11.2	59	..	0.2	..	0.2	0	0	2	0	0	0	0	0	0	2	0	29	0		
	0530	"	1013.1	946.7	..	16.3	12.3	8.8	11.1	62	..	0.2	..	1.6	0	0	7	3	0	0	0	0	0	1	1	24	0		
	0830	"	1013.9	948.6	+1.0	22.0	15.0	9.7	11.7	46	-1	0.6	-0.7	0.9	0	0	5	1	0	0	0	0	0	2	2	26	0		
	1130	"	1012.4	948.9	..	29.9	18.6	10.9	12.2	32	..	0.9	..	5.3	0	0	27	6	5	4	1	1	3	2	5	4	0		
	1730	"	1008.8	945.7	..	30.7	19.7	12.6	13.6	34	..</td																		

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—MARCH, 1958 (PHALGUNA 10, 1879—CHAITRA 10, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer (in metres above mean sea level in millibars)	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Octas)	Wind speed (Km.p.h.)	No. of observations														
			At station level	Departure from normal	Dry bulb	Wet bulb	Dew point	At mean sea level or height in g.p.m. of nearest standard isobaric level						Mean amount	Departure from normal	Mean wind speed Kms. per hour	62 or more	20 to 61	1 to 19	N	NE	E	SE	S	SW	W	NW	Calm	Variable
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (West)																												
<i>Cond.</i> Rajgarh . . .	0830	382	1013.5	970.2	..	22.4	13.3	3.0	8.0	30	..	1.5	..	3.8	0	1	14	2	0	1	2	7	0	2	1	16	0	
	1730	"	1007.9	966.4	..	33.6	17.1	-0.9	6.3	12	..	2.0	..	7.8	0	2	24	6	0	1	0	3	4	9	3	5	0	
Neemuch . . .	0830	496	1014.0	958.4	+1.6	23.3	12.7	1.6	6.1	25	-12	1.0	-0.3	5.4	0	0	25	0	14	3	0	1	2	4	1	6	0	
	1730	"	1008.5	954.8	..	32.5	15.7	-2.2	4.2	12	..	3.2	..	9.9	0	2	29	0	0	12	0	1	2	5	8	3	0	0
Ratlam . . .	0830	486	1013.3	958.4	..	21.7	13.3	5.3	9.3	33	..	1.6	..	6.7	0	0	21	6	8	2	1	1	1	1	10	0	0	
	1730	"	1008.1	955.3	..	32.8	17.4	4.2	8.7	18	..	2.7	..	7.4	0	1	21	0	4	0	0	0	7	7	4	9	0	
Alirajpur . . .	0830	293	1013.9	980.6	..	22.6	14.4	6.1	9.9	36	..	1.7	..	4.7	0	0	22	0	1	5	4	1	3	6	2	9	0	
	1730	"	1008.3	976.4	..	34.4	17.6	-0.2	6.4	12	..	1.5	..	10.2	0	1	29	2	1	0	1	2	8	10	6	1	0	
Indore . . .	0530	567	1011.7	947.6	..	18.9	10.9	1.8	7.3	33	..	1.7	..	8.3	0	1	28	6	6	4	0	1	4	4	2	0	0	
	0830	"	1013.4	949.9	+0.8	22.5	12.9	3.1	8.0	29	-3	1.9	+0.8	8.8	0	2	25	3	4	3	2	4	2	7	2	4	0	
	1130	"	1011.5	949.8	..	30.8	16.0	2.1	7.4	17	..	1.4	..	11.4	0	2	28	3	8	6	4	3	4	2	0	1	0	
	1730	"	1007.2	946.1	..	32.5	16.2	0	6.6	14	..	2.5	..	12.0	0	3	28	5	2	2	0	4	8	7	3	0	0	
Bhopal (Bairagarh) . . .	0230	523	1010.7	952.1	..	21.2	12.6	4.2	8.3	34	..	1.0	..	6.5	0	0	23	5	7	1	3	1	1	4	1	8	0	
	0530	"	1011.5	952.4	..	20.0	12.1	3.9	8.3	37	..	1.4	..	5.4	0	0	18	4	5	2	1	2	1	2	1	13	0	
	0830	"	1012.9	954.6	+0.8	24.3	14.1	4.5	8.7	30	+1	1.6	+0.5	7.6	0	3	20	0	8	3	4	1	3	2	1	8	1	
	1130	"	1011.5	954.5	..	31.0	16.9	4.8	9.0	20	..	1.0	..	10.1	0	1	29	3	6	10	3	1	2	3	2	1	0	
	1730	"	1007.3	950.8	..	32.3	16.7	2.5	7.7	16	..	2.8	..	14.6	0	5	24	3	2	0	2	2	5	3	12	2	0	
	2330	"	1011.4	953.0	..	23.4	13.5	3.8	8.1	29	..	1.0	..	6.5	0	0	22	8	6	0	2	1	1	3	1	9	0	
Khandwa . . .	0830	318	1013.0	977.0	+0.9	24.6	14.4	3.1	8.3	26	-7	1.9	+1.0	5.5	0	0	30	2	7	0	2	6	4	6	3	1	0	
	1730	"	1007.2	972.7	..	35.1	18.1	1.4	7.0	13	..	2.2	..	7.6	0	2	28	3	7	0	1	0	4	4	11	1	0	
Hoshangabad . . .	0830	302	1013.0	978.8	+0.5	24.1	15.3	6.4	10.3	36	+2	1.4	+0.2	0.6	0	0	3	0	1	1	0	0	0	1	0	28	0	
	1730	"	1007.1	974.2	..	34.4	17.6	0.8	6.4	12	..	2.5	..	2.0	0	0	10	1	0	0	1	0	2	4	2	21	0	
Betul . . .	0830	653	1013.2	940.9	..	24.1	14.6	6.0	10.2	33	..	2.6	..	4.4	0	0	25	1	3	8	7	0	1	4	1	6	0	
	1730	"	1006.6	936.7	..	31.6	16.4	2.5	8.1	17	..	3.0	..	10.3	0	1	29	5	6	2	0	0	4	7	6	1	0	
Chhindwara . . .	0830	685	1013.5	937.4	..	22.5	14.7	8.3	11.1	43	..	2.1	..	3.5	0	0	27	3	7	1	2	2	5	5	4	0	0	
	1730	"	1007.1	933.5	..	30.9	16.6	3.4	8.4	20	..	4.2	..	9.5	0	1	30	2	4	0	2	2	8	5	8	0	0	
Seoni . . .	0830	619	1013.3	944.7	+1.6	23.9	16.2	10.8	12.9	46	+9	3.3	+2.0	2.5	0	0	19	2	3	3	6	5	0	0	0	12	0	
	1730	"	1007.4	940.7	..	30.4	17.9	8.3	11.3	27	..	3.3	..	3.4	0	0	27	5	7	3	6	4	1	0	1	4	0	
Sagar . . .	0830	551	1012.7	951.3	+1.0	24.4	13.9	4.9	8.2	30	-1	1.4	+0.1	6.3	0	0	30	1	6	10	4	0	2	5	2	1	0	
	1730	"	1007.4	947.7	..	31.5	15.9	3.2	6.7	15	..	2.9	..	10.0	0	1	28	0	3	3	0	0	3	10	10	2	0	
Nowrang . . .	0830	229	1013.8	987.5	+1.4	21.7	14.6	8.1	10.7	43	-3	1.5	-0.3	2.7	0	0	19	1	1	3	0	4	9	1	0	12	0	
	1730	"	1008.6	983.5	..	33.1	18.3	5.2	9.1	19	..	2.2	..	5.0	0	0	28	1	6	2	0	0	5	0	14	3	0	
Madhya Pradesh (East)																												
Sutna . . .	0530	317	1011.5	975.0	..	18.5	13.5	8.7	11.3	55	..	1.5	..	2.2	0	0	15	0	0	0	3	2	1	4	5	16	0	
	0830	"	1013.2	977.3	+1.4	23.7	15.7	8.5	11.5	41	+1	2.2	+0.7	2.8	0	0	19	0	1	2	5	3	4	4	0	12	0	
	1130	"	1012.3	977.2	..	30.7	18.0	6.7	10.0	25	..	1.9	..	7.0	0	0	31	4	2	1	3	3	4	6	8	0	0	
	1730	"	1008.3	973.5	..	30.8	17.8	5.5	9.8	23	..	2.4	..	5.5	0	0	29	2	3	3	2	0	1	5	2	0	4	12	0
Umaria . . .	0830	"	1011.8	975.7	..	22.5	15.3	8.8	11.5	44	..	1.7	..	4.5	0	1	18	0	3	1	5	2	0	4	4	12	0	
	2330	"	1011.8	957.7	..	30.7	21.6	17.9	19.3	50	..	3.4	..	5.2	0	1	17	1	6	0	2	3	6	0	0	1	19	0
Jabalpur . . .	0530	393	1011.9	966.8	..	17.5	13.9	10.6	13.0	66	..	2.3	..	2.5	0	0	22	1	1	1	13	4	0	0	0	11	0	
	0830	"	1013.5	969.0	+1.4	22.8	16.3	11.0	13																			

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—MARCH, 1958 (PHALGUNA 10, 1879—CHAITRA 10, 1880 SAKA) 129

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs.	Relative humidity %	Cloud amount (Oktas)	Wind speed (Km.p.h.)	No. of observations																							
			At mean sea level	At height in g.p.m. nearest standard isobaric level	At station level	Dry bulb	Wet bulb	Dew point					Mean 6	Mean 7	Mean 8	Mean 9	Mean 10	Mean 11	Departure from normal	Mean 12	Departure from normal	Mean 13	Departure from normal	Mean 14	Mean wind speed Kms. per hour	62 or more	20 to 61	1 to 19	N	NE	E	SE	S	SW	W	NW	Calm	Variable
	1	2	3	4	5	6	7	8					Mean 11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28						
Madhya Pradesh (East)—contd.																																				
Raipur • •	0530	298	1011.3	977.4	..	21.7	16.6	12.6	14.7	59	..	3.2	..	5.1	0	1	15	1	3	5	1	1	4	0	15	0										
	0830	"	1013.2	980.0	+1.8	24.7	18.0	12.1	15.2	50	+10	3.7	+2.4	4.3	0	0	21	4	2	2	7	1	2	1	10	0										
	1130	"	1012.3	979.3	..	30.8	19.3	10.2	12.8	32	..	2.9	..	6.3	0	1	26	2	5	5	1	2	5	6	1	4	0									
	1730	"	1008.1	975.5	..	32.8	19.4	8.5	12.8	25	..	2.7	..	3.5	0	0	20	6	0	4	0	2	3	3	2	11	0									
Kanker • •	2330	"	1011.3	977.7	..	25.7	17.8	11.4	13.9	44	..	2.3	..	8.0	0	2	24	2	2	7	5	6	2	0	2	5	0									
	0830	402	1013.4	968.3	+1.6	24.5	18.0	13.3	15.3	52	-1	2.6	+0.9	0.3	0	0	3	0	0	0	1	0	0	0	2	28	0									
	1730	"	1008.0	964.3	..	32.5	19.8	10.3	12.7	26	..	2.6	..	1.7	0	0	15	4	1	0	0	1	3	0	6	16	0									
	2330	"	1012.0	949.7	..	19.5	16.5	14.4	16.4	73	..	1.9	..	0.9	0	0	13	1	2	3	4	2	1	0	0	1	23	0								
Jabalpur •	0530	553	1012.0	949.7	..	19.5	16.5	14.4	16.4	58	+1	2.2	+0.9	1.6	0	0	13	1	2	3	4	2	1	0	0	0	18	0								
	0830	"	1013.4	951.9	+1.2	24.2	18.5	15.1	16.7	58	+1	2.2	+0.9	1.6	0	0	13	1	2	3	4	2	1	0	0	0	1	23	0							
	1130	"	1011.0	951.2	..	31.6	19.7	11.8	13.2	31	..	2.1	..	6.6	0	1	28	2	7	5	3	3	6	2	1	2	0									
	1730	"	1007.3	947.7	..	31.5	19.5	11.5	12.9	31	..	3.8	..	6.1	0	1	27	4	6	3	0	6	5	0	4	3	0									
Gujarat Deccan .	2330	"	1011.7	950.3	..	23.8	17.9	14.1	16.4	55	..	1.8	..	1.7	0	0	11	1	0	4	3	0	2	1	0	20	0									
	0830	136	1013.5	957.9	+1.3	23.1	16.2	10.3	12.8	44	..	1.7	..	5.1	0	0	28	4	9	6	2	2	1	3	1	3	0									
	1730	"	1009.2	934.0	..	34.7	21.3	11.8	14.4	26	..	2.4	..	9.9	0	0	31	6	1	0	0	4	5	7	8	0	0									
	0830	219	1012.9	988.0	..	25.2	16.3	7.9	11.3	35	..	0.8	..	6.7	0	0	24	7	7	2	2	1	2	7	0											
Ahmedabad	1730	"	1008.5	984.6	..	34.5	19.9	8.2	11.5	21	..	1.6	..	6.4	0	0	30	1	1	2	1	9	12	3	1	0										
	0230	55	1010.8	1004.5	..	23.3	14.5	5.3	9.4	33	..	0.2	..	9.8	0	0	30	8	4	2	0	1	2	7	6	1	0									
	0530	"	1010.9	1004.6	..	21.1	13.9	6.2	10.1	40	..	0.4	..	10.1	0	1	29	4	6	3	0	0	1	6	10	1	0									
	0830	"	1013.0	1006.7	+0.5	23.8	15.8	7.6	11.4	40	-7	0.9	-0.2	11.6	0	1	26	2	5	6	0	1	0	4	9	4	0									
Dohad • •	1130	"	1013.2	1007.1	..	32.5	18.3	4.9	9.6	20	..	0.8	..	15.9	0	9	22	2	8	8	2	0	2	4	5	0	0									
	1730	"	1009.0	1002.9	..	35.6	18.6	2.1	7.7	13	..	1.2	..	13.3	0	3	27	3	1	3	1	0	2	11	9	1	0									
	2330	"	1011.4	1005.1	..	26.1	15.6	4.7	9.1	27	..	0.4	..	9.5	0	0	28	8	5	0	0	1	5	4	5	3	0									
	0830	333	1013.3	975.6	..	23.1	14.9	6.0	10.4	36	-8	1.0	-0.2	8.7	0	3	21	1	2	7	1	3	5	4	1	7	0									
Baroda • •	1730	"	1008.7	972.5	..	34.0	17.7	1.3	6.9	13	..	1.2	..	13.4	0	3	27	2	2	0	0	0	14	9	3	1	0									
	0530	35	1011.1	1007.1	..	19.1	14.2	9.5	12.3	36	..	0.7	..	1.5	0	0	11	0	7	0	0	1	1	0	2	20	0									
	0830	"	1013.4	1009.3	..	23.0	16.0	9.3	12.5	44	-3	1.0	+0.1	1.5	0	0	11	0	5	0	1	0	3	1	1	20	0									
	1130	"	1013.4	1009.5	..	33.2	19.2	7.0	10.9	22	..	0.5	..	5.7	0	0	28	4	10	4	2	1	3	3	1	3	0									
Baroda (Aerodrome) .	1730	"	1009.0	1005.1	..	36.5	20.1	6.5	10.3	17	..	0.6	..	5.3	0	0	27	4	6	1	1	0	1	8	6	4	0									
	2330	"	1011.5	1007.5	..	24.2	16.5	10.0	12.5	42	..	0.6	..	3.2	0	0	23	3	7	0	1	0	1	6	5	1	8	0								
	0830	38	1013.4	1009.1	..	23.6	16.5	11.2	13.0	47	..	0.7	..	6.2	0	0	25	5	2	1	5	3	4	2	3	6	0									
	1130	"	1013.4	1009.1	..	32.5	20.6	11.9	14.5	30	..	0.6	..	9.4	0	3	27	3	9	3	4	0	5	1	5	1	0									
Broach •	1730	"	1009.0	1004.8	..	35.9	21.0	10.2	12.7	22	..	0.7	..	5.8	0	0	29	4	3	0	0	0	3	9	10	2	0									
	0830	17	1013.0	1011.0	..	22.9	17.0	11.7	14.6	53	..	1.8	..	4.5	0	0	30	2	5	2	6	4	6	0	5	1	0									
	1730	"	1008.6	1006.7	..	36.7	19.7	4.9	9.2	14	..	1.1	..	9.1	0	0	31	5	1	0	7	1	10	2	5	0	0									
	0530	12	1011.0	1009.6	..	21.9	18.3	16.1	18.1	70	..	0.8	..	5.5	0	0	28	5	3	4	3	4	4	1	4	3	0									
Surat • •	0830	"	1013.2	1011.8	+0.9	24.0	18.9	14.9	17.7	60	0	1.5	+0.5	5.2	0	0	29	5	4	3	3	3	4	1	3	2	0									
	1130	"	1013.2	1011.9	..	32.7	20.6	11.4	14.5	31	..	1.4	..	8.5	0	2	27	3	7	2	1	1	3	4	8	2	0									
	1730	"	1009.6	1007.7	..	35																														

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—MARCH, 1958 (PHALGUNA 10, 1879—CHAITRA 10, 1880 SAKA)

Division and station	Hour of observation I. S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Cloud amount Octas)			Wind speed (Kms. p.h.)			No. of observations															
			At mean sea level or height in 8 p.m. nearest standard isobaric level			At station level			Departure from normal			Relative humidity %			Mean wind speed Kms. per hour			62° or more			20 to 61			1 to 19			Wind direction			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	Calm	Variable
Saurashtra and Kutch —Contd.																														
Jamnagar .	0530	23	1011.5	1008.9	..	19.7	17.9	16.3	19.0	83	..	0.6	..	6.5	0	2	26	0	1	2	0	3	14	6	2	3	0	0		
	0830	..	1013.5	1010.8	+0.7	22.8	19.7	17.4	20.5	74	+3	1.8	+0.7	9.7	0	4	25	1	4	1	1	2	7	11	2	2	0	0		
	1130	..	1014.0	1011.4	..	30.1	21.2	15.4	17.9	43	..	0.5	..	17.7	0	11	20	3	10	0	0	0	0	14	4	0	0	0		
	1730	..	1010.1	1007.6	..	31.1	21.3	14.6	17.5	40	..	0.5	..	26.3	0	26	5	5	3	0	0	0	0	15	8	0	0	0		
Rajkot (Aerodrome) .	0830	134	1013.7	998.3	+1.2	22.3	18.3	14.7	17.9	67	+7	0.8	-1.0	10.6	0	2	27	1	3	5	1	1	4	7	7	2	0	0		
	1130	..	1013.4	998.5	..	31.5	19.8	10.4	13.7	31	..	0.0	..	21.3	0	16	15	2	9	3	1	0	1	6	9	0	0	0		
	1730	..	1009.1	994.4	..	34.7	19.9	7.7	11.3	21	..	0.2	..	19.3	0	14	16	5	5	0	0	0	0	2	9	9	1	0		
Surendranagar . .	0830	74	1013.3	1004.8	..	24.1	20.1	17.1	20.2	68	..	0.7	..	12.9	0	4	27	2	4	1	0	1	2	9	12	0	0	0		
	1730	..	1009.0	1000.8	..	35.5	26.4	21.0	27.0	47	..	1.1	..	9.1	0	2	27	0	3	0	0	0	1	5	6	12	4	0		
Bhavnagar . .	0830	17	1013.6	1011.7	+1.0	23.0	16.2	9.6	13.0	46	-1	0.4	-0.8	3.3	0	0	27	0	3	0	0	0	1	5	6	12	4	0		
	1730	..	1009.6	1007.7	..	35.3	20.1	8.5	11.1	21	..	0.6	..	5.6	0	0	29	2	9	8	6	2	1	1	0	2	0	0		
Bhavnagar (Aerodrome)	0830	11	1013.2	1012.0	..	24.3	16.7	9.7	12.9	41	..	0.6	..	13.1	0	1	26	6	1	0	0	0	4	4	12	4	0			
	1130	..	1013.6	1012.4	..	31.1	18.9	8.7	11.9	27	..	0.6	..	18.8	0	12	18	6	16	6	0	0	1	1	0	1	0	0		
Mahuva . .	0830	16	1013.0	1011.2	..	24.5	19.1	15.3	17.6	58	..	0.9	..	6.4	0	1	22	2	10	1	0	0	1	1	8	6	0	0		
	1730	..	1009.9	1008.2	..	32.3	25.7	22.4	27.6	58	..	0.7	..	20.3	0	9	20	0	2	8	7	6	6	0	0	0	0	0		
Keshod . .	0830	51	1013.8	1007.9	..	23.7	18.1	13.8	16.3	60	..	1.6	..	11.5	0	3	25	9	7	5	1	0	2	2	3	0	0	0		
	1130	..	1014.0	1008.2	..	32.0	18.9	9.6	11.3	28	..	0.5	..	26.1	0	22	9	8	4	5	0	0	1	6	7	0	0	0		
	1730	..	1010.4	1004.7	..	32.6	19.5	10.5	12.1	29	..	0.4	..	32.1	0	29	2	3	1	0	0	0	0	5	19	3	0	0		
Veraval . .	0230	8	1011.4	1010.5	..	21.4	18.1	15.0	18.1	72	..	0.1	..	12.5	0	3	27	19	4	0	0	0	0	1	6	1	0	0		
	0530	..	1011.2	1010.3	..	20.1	16.9	13.5	16.4	72	..	0.2	..	10.5	0	3	26	20	4	1	0	0	0	1	3	2	0	0		
	0830	..	1013.3	1012.4	+0.6	23.1	18.4	14.0	17.3	63	0	0.8	-0.3	12.9	0	2	25	17	6	0	0	0	0	1	3	4	0	0		
	1130	..	1013.8	1012.9	..	29.8	21.6	15.1	19.0	49	..	0.5	..	18.5	0	11	20	6	4	1	1	0	0	5	10	4	0	0		
	1730	..	1010.4	1009.5	..	27.4	23.6	21.7	25.9	71	..	0.4	..	21.7	0	17	14	0	0	0	0	0	2	5	18	6	0	0		
	2330	..	1012.5	1011.6	..	23.3	20.3	18.6	21.3	75	..	0.1	..	12.5	0	4	27	13	1	0	0	0	0	0	3	14	0	0		
Konkan																														
Dahanu . .	0830	5	1012.9	1012.4	+1.1	24.6	20.1	17.0	19.8	66	-7	1.3	-0.8	8.5	0	0	31	3	1	13	13	0	0	1	0	0	0	0	0	
	1730	..	1009.5	1009.0	..	28.2	24.1	21.8	26.5	69	..	1.4	..	15.7	0	2	29	15	0	0	0	0	0	0	10	6	0	0		
Bombay (Colaba) .	0830	11	1012.9	1011.7	+0.6	25.7	22.4	20.5	24.4	74	+1	1.8	+0.5	5.4	0	0	26	8	7	6	3	0	0	0	2	5	0	0	0	
	1130	..	1013.0	1011.8	..	30.5	23.8	19.9	24.1	56	..	1.0	..	8.0	0	0	31	5	4	1	2	1	2	3	13	0	0	0		
Bombay (Santacruz Aerodrome) .	0230	15	1011.0	1009.3	..	22.8	19.8	17.4	20.6	75	..	1.3	..	2.5	0	0	11	3	5	0	0	0	1	0	2	20	0	0		
	0530	..	1010.9	1009.2	..	21.9	19.3	17.1	20.3	78	..	0.6	..	3.2	0	0	14	1	6	5	0	1	0	0	1	17	0	0	0	
	0830	..	1012.8	1011.1	+0.4	25.6	20.9	17.5	20.9	65	-5	1.3	0	6.2	0	0	25	4	9	9	2	0	0	1	6	0	0	0		
	1130	..	1013.0	1011.3	..	31.4	21.8	14.8	18.3	43	..	1.3	..	16.8	0	4	27	1	2	5	0	0	0	2	14	7	0	0		
	1730	..	1009.5	1007.9	..	29.8	22.2	17.4	20.6	50	..	1.5	..	21.4	0	19	12	4	1	0	0	0	0	0	0	9	17	0	0	
	2330	..	1012.1	1010.4	..	24.5	20.8	18.3	21.6	71	..	1.1	..	1.6	0	0	8	2	0	0	1	0	0	0	3	2	23	0	0	
Alibag	0830	7	1012.7	1011.9	+0.7	25.1	21.8	19.9	23.4	74	+9	1.8	+0.5	4.2	0	0	28	7	8	8	3	0	0	0	2	3	0	0	0	
Harnai . .	0830	20	1012.0	1009.7	+1.1	25.7	21.5	18.8	22.3	68	0	2.3	..	9.0	0	1	30	11	10	5	2	0	0	1	2	0	0	0	0	
	1730	..	1009.4	1007.1	..	27.9	24.2	22.3	27.1	72	..	1.8	..	25.3	0	25	6	3	0	0	0	0	1	7	20	0	0	0		
Ratnagiri . .	0830	35	1012.5	1008.5	+0.7	25.3	21.8	20.1	23.3	74	..	3.1	0	0	31	0	1	30	0	0	0	0	0	0	0	0	0	
	1730	..	1010.5	1006.6	..	29.5	24.1	21.5																						

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—MARCH, 1958 (PHALGUNA 10, 1879—CHAITRA 10, 1880 SAKA)

Division and station	Hour of observation I.S.T.			Mean pressure in millibars			Mean temperature in °C			Cloud amount (Oktas)			Wind speed (Km p.h.)			No. of observations												
	Height of barometer cistern above mean sea level in metres.			At mean sea level or height in g.p.m. of nearest standard isobaric level			At station level			Departure from normal			Departure from normal			Mean wind speed Kms. per hour			Wind direction									
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Maharashtra—Contd.																												
Aurangabad (Chikalthana Aerodrome).	0230	579	1010.6	946.0	..	22.1	14.2	7.4	10.5	39	..	2.0	..	4.9	0	1	14	2	1	0	1	0	0	6	5	16	0	
	0530	„	1011.3	946.1	..	19.6	12.6	5.9	9.6	42	..	1.5	..	5.0	0	1	15	5	2	1	0	0	0	0	6	2	15	0
	0830	„	1012.3	948.3	..	25.4	16.2	9.1	11.8	36	..	1.3	..	5.7	0	2	16	4	1	0	3	0	0	0	10	0	13	0
	1130	„	1010.9	948.3	..	31.8	13.8	9.6	12.1	26	..	1.2	..	11.5	0	3	25	9	1	5	6	2	2	2	1	3	0	0
	1730	„	1006.3	944.3	..	34.0	19.6	9.5	12.2	23	..	3.2	..	9.5	0	3	20	5	3	0	0	2	2	8	3	8	0	0
	2330	„	1011.0	946.8	..	24.3	15.1	7.2	10.5	34	..	2.1	..	6.0	0	1	18	5	1	2	1	0	1	1	6	3	12	0
Ahmednagar . .	0830	657	1012.5	939.8	+0.5	23.8	14.6	6.9	9.9	35	+5	1.6	+0.8	3.8	0	1	28	0	3	0	3	0	1	0	22	2	0	
	1730	„	1006.1	936.2	..	34.1	13.2	6.5	9.3	19	..	3.0	..	3.8	0	0	26	0	3	0	3	0	1	0	19	5	0	
Parbhani . . .	0830	423	1012.9	965.6	..	25.2	15.1	1.5	9.0	29	..	2.3	..	8.6	0	1	28	1	4	3	3	0	5	9	4	2	0	
	1730	„	1005.6	961.1	..	35.7	19.1	4.0	8.6	15	..	3.8	..	6.3	0	1	30	3	2	3	2	4	4	6	7	0	0	
Poona . . .	0530	559	1011.8	948.6	..	18.8	14.8	11.7	13.9	65	..	0.6	..	0.2	0	0	1	0	0	0	0	0	0	0	30	0	0	
	0830	„	1013.3	950.6	+0.8	22.2	16.1	11.6	13.9	53	-1	1.3	+0.5	1.2	0	0	9	1	0	9	2	5	0	0	1	22	0	
	1130	„	1011.1	950.4	..	31.4	18.0	8.1	10.9	24	..	1.2	..	5.0	0	0	22	5	2	6	4	0	0	1	4	9	0	
	1730	„	1006.5	946.5	..	33.5	19.3	9.3	12.1	23	..	2.5	..	6.5	0	0	25	1	3	0	3	0	2	8	6	0		
	2330	„	1011.8	949.6	..	23.9	17.5	13.1	15.3	51	..	1.1	..	1.1	0	0	8	0	0	0	2	4	1	1	0	23	0	
	0230	593	1011.3	944.8	..	20.8	14.5	8.9	11.9	50	..	1.8	..	4.5	0	0	19	1	1	1	0	0	0	12	4	12	0	
Poona (Lohagaon Aerodrome)	0530	„	1011.8	944.8	..	19.1	13.6	8.5	11.6	53	..	1.7	..	3.6	0	0	18	1	0	0	0	0	0	10	7	13	0	
	0830	„	1013.1	946.9	..	22.5	15.0	3.8	11.6	44	..	1.7	..	4.5	0	0	19	0	9	4	1	0	0	10	4	12	0	
	1130	„	1011.1	946.8	..	31.0	17.3	6.1	9.8	22	..	1.4	..	12.4	0	6	22	0	1	11	6	1	0	5	4	3	0	
	1730	1006.6	942.9	..	32.3	17.9	6.0	9.6	20	..	2.9	..	18.2	0	13	12	1	1	2	1	0	2	11	7	6	0		
	2330	„	1012.0	945.9	..	23.2	15.7	9.7	12.3	44	..	1.8	..	3.2	0	1	25	0	0	0	0	0	0	14	12	5	0	
	0830	551	1013.2	951.5	..	23.1	15.6	9.7	12.2	44	..	2.2	..	6.2	0	0	25	4	3	3	1	1	0	6	7	6	0	
Baramati . .	1730	„	1005.8	947.0	..	34.5	19.4	8.3	11.4	21	..	2.8	..	10.9	0	4	25	1	2	2	4	4	8	6	2	2	0	
	0830	521	1012.2	954.2	..	24.1	15.9	9.6	12.1	42	..	2.2	..	4.8	0	0	22	0	3	5	1	0	0	6	7	9	0	
Jeur . .	0830	521	1012.2	954.2	..	24.1	15.9	9.6	12.1	42	..	3.2	..	3.9	0	0	31	0	2	4	3	0	4	11	7	0	0	
	1730	„	1005.9	950.3	..	31.7	19.1	7.7	10.7	21	..	3.2	..	3.9	0	0	31	0	2	4	3	0	4	11	7	0	0	
Sholapur . .	0530	479	1010.9	957.1	..	22.5	16.4	11.8	14.2	52	..	1.9	..	6.5	0	0	25	2	5	3	4	0	3	3	5	6	0	
	0830	„	1012.6	959.0	+0.8	24.9	17.7	12.6	15.0	48	+13	2.2	+1.2	5.3	0	0	27	3	5	0	5	1	2	4	7	4	0	
	1130	„	1010.9	959.0	..	32.7	21.3	14.6	16.9	35	..	1.1	..	11.1	0	3	28	4	3	1	9	1	5	1	7	0	0	
	1730	„	1006.1	954.8	..	35.4	22.1	14.1	16.7	30	..	3.8	..	9.0	0	1	28	1	7	1	6	0	7	0	7	2	0	
	2330	„	1010.2	957.5	..	27.8	18.7	12.7	14.9	41	..	2.8	..	10.1	0	2	28	1	7	4	5	1	3	4	5	1	0	
	0830	554	1012.7	951.0	+0.7	23.3	18.0	11.6	16.8	60	+8	3.3	+2.3	4.0	0	0	26	1	3	6	3	1	2	6	4	5	0	
Miraj . .	1730	„	1005.7	946.5	..	34.4	21.4	13.7	15.9	30	..	4.5	..	10.5	0	1	28	1	4	5	2	0	5	8	4	2	0	
	0830	554	1012.7	951.0	+0.7	23.3	18.0	11.6	16.8	60	+8	3.3	+2.3	4.0	0	0	26	1	3	6	3	1	2	6	4	5	0	
	0530	570	1011.0	947.0	..	20.2	16.9	11.5	16.8	72	..	1.1	..	5.0	0	0	23	0	3	2	1	1	3	11	2	8	0	
	0830	„	1012.8	940.3	+0.8	23.3	17.7	13.9	16.1	57	+1	2.2	+1.3	3.7	0	0	19	1	4	7	1	2	1	3	0	12	0	
Kolhapur:	0530	570	1011.0	947.0	..	20.2	16.9	11.5	16.8	72	..	1.1	..	5.0	0	0	23	0	3	2	1	1	3	11	2	8	0	
	0830	„	1011.0	949.2	..	31.1	18.8	10.0	12.8	29	..	1.6	..	9.2	0	2	27	2	5	6	7	3	1	2	3	2	0	
	1130	„	1006.5	945.2	..	32.8	20.1	11.8	14.1	29	..	2.5	..	13.5	0	13	18	1	2	3	1	0	1	17	6	0		
	1730	„	1006.5	945.2	..	32.8	20.1	11.8	14.1	29	..	2.5	..	13.5	0	13	18	1	2	3	1	0	1	17	6	0		
Vidarbha	0830	650	1011.9	940.1	..	24.2	14.9	6.4	10.7	33	..	1.7	..	3.3	0	0	27	0	9	0	0	0	1	0	17	4	0	
	1730	„	1006.7	937.0	..	32.4	18.1	7.1</																				

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—MARCH, 1958. (PHALGUNA 10, 1879—CHAITRA 10, 1880 SAKA)

Division and station	Hours of observation I.S.T.	Height of barometer cistern above mean sea level in metres	At mean sea level or height in g.p.m. of nearest isobaric level	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Okta)		Wind speed (Km. p.h.)			No. of observations																		
				At station level			Departure from n.r.m.s.						Dry bulb		Wet bulb		Dew point		Mean amount		Departure from normal		Mean wind speeds Kms. per hour			Wind direction										
				5	6	7	8	9	10				11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28						
1	2	3	4	5	6	7	8	9	10																											
Vidarbha—Coutd. Chanda	0830	193	1012.9	991.0	+1.0	25.4	18.7	13.8	16.0	50	+8	3.3	+2.1	4.3	0	0	28	3	2	11	5	5	1	0	1	3	0									
	1730	"	1007.6	986.4	..	33.8	20.3	9.9	12.8	26	..	2.8	..	5.5	0	0	29	5	9	6	6	2	1	0	0	2	0									
Coastal Andhra Pra- des	Nellore	0530	20	1010.7	1008.4	..	24.3	23.1	22.6	27.4	91	..	1.2	..	3.8	0	0	26	0	0	0	11	9	2	3	1	5	0								
	0830	"	1013.0	1010.7	+1.0	28.1	24.5	22.7	27.8	73	-5	1.9	-0.2	5.7	0	0	30	1	0	0	17	8	1	2	1	1	0									
	1130	"	1012.5	1010.2	..	33.1	24.8	20.8	26.0	49	..	2.5	..	6.8	0	0	31	1	0	0	13	9	3	1	0	0	0									
	1730	"	1009.3	1007.0	..	30.6	24.8	22.0	26.3	61	..	1.4	..	12.2	0	0	31	0	2	8	20	1	0	0	0	0	0									
	2330	"	1012.1	1009.8	..	26.1	24.1	23.2	28.7	84	..	1.1	..	3.5	0	0	6	0	0	0	6	0	0	0	0	0	25	0								
Ongole	0830	12	1013.2	1011.9	..	28.7	27.3	26.5	35.2	89	..	2.6	..	2.4	0	0	14	0	1	0	10	0	0	3	0	0	0	17	0							
	1730	"	1009.4	1008.1	..	29.7	28.5	27.9	38.0	91	..	2.3	..	13.1	0	1	30	0	0	0	10	21	0	0	0	0	0	0								
Rentachintala	0830	106	1012.9	1001.0	..	28.1	22.7	19.8	23.0	62	0	3.2	+0.1	5.0	0	0	26	1	2	3	3	12	2	2	1	5	0									
	1730	"	1008.8	996.2	..	35.6	21.7	12.2	14.6	26	..	3.1	..	5.3	0	0	31	5	1	15	5	5	0	0	0	0	26	0								
Gannavaram	0230	23	1010.5	1007.9	..	24.6	23.3	22.7	27.3	89	..	1.1	..	0.7	0	0	5	0	0	0	10	8	1	1	0	0	0	11	0							
	0530	"	1010.9	1008.2	..	23.8	22.9	22.5	27.3	92	..	2.0	..	3.9	0	0	20	0	0	0	3	11	10	2	0	1	4	0								
	0830	"	1013.1	1010.5	..	27.6	24.8	23.6	29.0	79	..	2.3	..	7.6	0	0	27	0	3	11	10	2	0	1	4	0	4	2								
	1130	"	1012.5	1009.9	..	32.6	25.5	22.2	26.9	54	..	1.7	..	8.6	0	0	27	1	1	4	8	8	3	0	0	4	2									
	1730	"	1018.8	1006.2	..	33.4	25.2	21.3	25.1	51	..	1.7	..	16.6	0	7	24	0	0	0	16	14	1	0	0	0	0	13	0							
Masulipatam	0530	3	1011.1	1010.8	..	23.8	23.0	22.7	27.4	93	..	2.3	+0.7	3.5	0	0	16	6	1	3	1	5	0	0	0	0	15	0								
	0830	"	1013.4	1013.1	+1.0	28.3	24.8	23.2	23.5	74	-5	3.0	+0.7	6.7	0	0	29	4	1	2	4	12	4	2	0	2	0	0								
	1130	"	1013.1	1012.8	..	31.3	25.0	21.9	26.5	58	..	3.4	..	11.7	0	1	30	1	0	2	13	10	5	0	0	0	0	0								
	1730	"	1019.9	1009.6	..	29.5	24.5	22.1	26.7	65	..	1.9	..	16.8	0	6	25	0	0	0	8	23	0	0	0	0	0	0								
	2330	"	1012.1	1011.3	..	25.9	24.0	23.1	28.3	84	..	1.7	..	7.5	0	0	26	0	0	0	9	11	6	0	0	5	0									
Nidadavolu	0830	12	1013.6	1012.2	..	27.2	23.8	22.2	26.9	74	..	2.9	..	4.7	0	1	24	11	6	4	2	0	0	1	1	6	0									
	1730	"	1009.5	1008.1	..	32.2	23.9	21.7	22.8	48	..	2.5	..	12.1	0	0	31	0	0	0	3	27	0	1	0	0	0	0								
Kakinada	0830	8	1014.1	1013.1	+1.3	29.8	25.1	22.9	28.0	67	-7	2.1	-0.6	8.9	0	0	28	0	9	2	15	0	2	0	0	3	0									
	1730	"	1010.0	1009.1	..	30.1	25.5	23.4	28.8	68	..	1.4	..	10.6	0	0	31	0	0	0	0	28	0	3	0	0	0	0								
Visakhapatnam	0230	3	1011.0	1010.6	..	24.6	23.1	22.3	27.0	88	..	1.2	..	1.7	0	0	10	0	0	0	1	1	0	1	0	3	1	4	20	0						
	0530	"	1011.5	1011.1	..	23.4	22.3	21.7	26.0	91	..	2.2	..	1.5	0	0	11	1	0	1	1	0	1	0	3	1	4	20	0							
	0830	"	1013.6	1013.2	+1.1	28.1	24.3	22.6	27.3	72	-1	1.9	-0.4	3.6	0	0	19	0	0	0	1	7	3	1	18	0	1	1	0							
	1130	"	1012.8	1012.4	..	33.1	25.3	21.5	26.1	52	..	1.6	..	11.5	0	1	29	0	0	0	7	3	1	18	0	1	1	0								
	1730	"	1010.1	1009.7	..	29.3	24.9	22.8	28.1	69	..	2.8	..	10.8	0	1	29	0	0	0	2	8	5	14	0	1	1	0								
	2330	"	1012.5	1012.1	..	25.8	23.8	20.3	27.8	84	..	1.5	..	1.9	0	0	8	0	0	0	0	0	0	0	0	6	0	23	0							
Calingapatam	0830	6	1012.9	1012.2	+0.5	24.3	22.1	20.9	24.8	82	+7	3.3	+1.6	6.0	0	0	31	0	0	0	0	0	0	0	0	14	16	1	0	0						
	1730	"	1009.8	1009.1	..	29.2	25.6	23.9	29.8	74	..	3.5	..	8.8	0	0	31	0	0	0	3	4	12	12	0	0	0	0	0							
Telangana	Ramagundam	0830	156	1012.8	955.0	..	26.9	21.0	17.3	20.1	57	..	3.9	..	8.5	0	3	28	4	3	2	9	6	5	1	1	0	0	0							
	1730	"	1007.5	990.3	..	35.3	28.8	10.2	12.9	24	..	3.3	..	14.6	0	0	30	9	4	0	7	6	4	0	0	1	0	20	0							
Nizamabad	0830	381	1012.5	969.9	+0.7	25.7	18.4	13.2	15.3	48	+4	2.2	+1.0	1.3	0	0	11	0	1	0	6	1	0	2	2	2	9	0								
	1730	"	1007.0	965.9	..	34.6	19.8	8.3	11.1	21	..	3.4	..	2.4	0	0	22	1	5	2	8	0	2	2	2	2	9	0								
Mahbubnagar	0830	505	1012.1	956.3	..	26.5	19.7	15.9	17.5	53	..	2.7	..	7.8	0	0	26	2	5	12	3	1	4	0	0	4	0									
	1730	"	1006.1	952.3	..																															

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—MARCH, 1958 (PHALGUNA 10, 1879—CHAITRA 10, 1880 SAKA)

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—MARCH, 1958 (PHALGUNA 10, 1879—CHAITRA 10, 1880 SAKA)

Division and station	Hour of observation I.S.T.		Mean pressure in millibars		Mean temperature in °C			Cloud amount (Oktas.)		Wind speed (Km. p.h.)		No. of observations										Wind direction									
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	Wind direction			
																												Cloud	Wind		
																															Claim
Coastal Mysore																															
Karwar . . .	0830	4	1012·3	1011·8	+0·3	24·8	22·6	21·6	25·8	82	..	2·5	..	2·2	0	0	18	1	6	9	2	0	0	0	0	0	0	0	13		
	1730	"	1009·3	1008·9	..	29·0	25·9	24·4	30·5	76	..	2·4	..	13·7	0	5	25	2	0	0	0	0	0	10	18	1					
Honavar . . .	0830	26	1012·7	1009·9	+0·6	24·4	21·9	20·6	24·2	80	+2	4·5	+1·5	1·2	0	0	12	0	0	0	10	0	0	0	0	2	0	19			
	1730	"	1009·6	1006·7	..	29·8	25·1	22·8	27·9	66	..	4·1	..	6·2	0	0	28	0	0	0	0	0	1	1	15	3	3				
Mangalore . . .	0230	22	1010·4	1007·9	..	26·1	23·5	22·3	26·8	79	..	2·0	..	5·1	0	0	24	4	8	9	0	0	0	0	0	3	7				
	0530	"	1010·5	1008·0	..	25·3	23·1	22·5	26·4	82	..	1·5	..	7·2	0	0	30	4	8	18	0	0	0	0	0	0	1				
Mangalore (Bajpe Aerodrome)	0830	"	1012·7	1010·2	+0·8	27·6	23·9	22·6	26·8	75	+1	1·8	0	5·5	0	0	30	2	7	13	4	0	0	0	0	4	1				
	1130	"	1012·5	1010·0	..	30·3	24·3	21·2	25·9	59	..	1·2	..	10·9	0	2	29	1	1	1	0	0	0	0	0	3	13	0			
Mangalore (Bajpe Aerodrome)	1730	"	1009·0	1006·5	..	29·5	24·7	22·4	27·3	66	..	2·2	..	17·1	0	13	18	1	0	0	0	0	0	2	11	17	0				
	2330	"	1011·7	1009·2	..	27·3	24·1	22·5	27·4	75	..	2·3	..	7·6	0	0	29	14	2	3	0	0	0	0	0	2	8	2			
Mysore (North)	0530	103	1011·1	999·2	..	23·7	22·4	21·6	26·1	89	..	3·1	..	1·4	0	0	12	0	2	9	0	0	0	0	1	0	19				
	0830	"	1012·8	1001·2	..	26·9	23·4	21·6	26·1	73	..	2·3	..	6·6	0	0	26	3	3	15	4	0	0	0	0	0	5	0			
Mysore (North)	1730	"	1009·2	997·6	..	29·0	24·7	22·7	27·2	69	..	2·2	..	18·3	0	21	10	1	0	0	0	0	0	0	18	12	0				
Bidar . . .	0830	664	1012·0	939·0	..	25·1	16·7	10·4	12·6	41	0	2·9	+1·1	12·4	0	2	29	1	3	4	0	7	10	2	4	0					
	1730	"	1006·5	935·2	..	32·9	17·9	5·9	9·6	19	..	4·7	..	13·1	0	3	28	4	8	1	2	5	6	2	3	0					
Gulbarga . . .	0830	458	1012·2	961·5	+1·1	27·7	18·0	10·8	12·7	36	-5	2·8	+2·1	12·2	0	2	29	4	4	5	3	1	1	0	0						
	1730	"	1006·0	956·8	..	35·0	18·7	6·2	8·2	18	..	5·9	..	14·3	0	2	29	3	5	6	4	4	4	1	0						
Bijapur . . .	0830	594	1012·2	946·5	+0·8	25·1	20·5	17·9	20·7	65	+18	3·2	+2·3	7·5	0	0	29	7	1	1	1	6	3	4	6	2					
	1730	"	1005·4	942·1	..	34·7	25·6	21·7	26·1	48	..	4·8	..	4·3	0	0	25	3	6	2	0	4	4	2	6						
Belgaum . . .	0830	781	1012·2	926·5	+0·7	23·1	16·4	11·7	13·8	50	-3	..	..	2·3	0	0	17	2	4	0	5	3	1	1	14	0			
	1730	"	1008·5	924·9	..	29·6	19·0	11·5	14·2	35	..	..	..	5·8	0	0	29	3	2	1	2	8	10	2	1	0		
Belgaum (C.T.O.)	0830	753	1012·3	929·7	+0·8	23·9	17·6	13·4	15·3	53	-7	1·9	+1·0	3·0	0	0	20	2	4	5	2	4	0	0	3	11	0				
	1730	"	1006·9	926·3	..	30·0	19·9	13·2	14·9	39	..	4·1	..	11·8	0	0	31	1	1	4	2	0	2	17	4	0					
Belgaum (Sambre Aerodrome)	0530	761	1011·4	926·5	..	19·8	16·2	13·6	15·7	60	..	1·9	..	2·0	0	0	12	0	0	1	8	1	0	2	0	19	0				
	0830	"	1012·4	928·9	..	23·6	17·4	13·2	25·6	54	..	2·0	..	5·8	0	0	24	0	5	4	12	0	0	2	1	7	0				
Galag . . .	0830	"	1010·5	928·8	..	30·3	19·1	11·4	13·7	33	..	1·6	..	16·0	0	12	17	4	6	3	11	2	0	1	2	2	0				
	1730	"	1006·6	925·5	..	30·5	20·1	13·5	15·9	38	..	3·4	..	22·8	0	22	9	1	0	3	3	0	6	14	4	0					
Galag (P.B.O.)	0830	650	1012·1	940·8	+1·0	25·7	19·9	16·7	18·1	58	+1	1·9	+1·0	6·3	0	0	27	1	0	5	5	2	5	8	1	4	0				
	1730	"	1005·9	936·8	..	33·7	21·9	15·2	17·0	33	..	4·0	..	5·4	0	0	29	1	6	10	1	0	4	5	2	2	0				
Raichur . . .	0530	661	1010·6	937·4	..	22·6	18·3	16·0	17·9	68	..	1·5	..	6·7	0	0	19	0	0	7	3	0	3	5	1	12	0				
	0830	"	1012·0	939·4	..	25·1	19·4	16·5	18·4	60	..	1·4	..	7·3	0	2	19	0	1	5	6	1	3	3	2	10	0				
Raichur . . .	1130	"	1010·7	939·4	..	30·9	19·6	13·5	14·6	36	..	0·9	..	9·3	0	3	18	0	1	4	7	0	1	6	2	10	0				
	1730	"	1005·8	935·3	..	32·7	19·7	12·7	13·5	30	..	3·9	..	4·1	0	0	22	1	3	7	3	1	3	4	0	9	0				
Mysore (South)	0830	400	1012·2	967·9	+1·2	27·9	20·8	16·6	19·4	52	+5	2·1	+1·1	4·4	0	0	21	1	3	4	4	3	1	3	2	10	0				
	1730	"	1006·6	963·0	..	35·2	22·4	13·8	16·9	29	..	3·2	..	3·3	0	0	20	2	4	4	3	4	2	1	0	11	0				
Bellary . . .	0830	449	1012·0	962·2	+1·0	26·9	18·9	13·0	15·3	44	-2	1·9	+0·7	2·2	0	0	21	0	0	9	0	4	0	8	10	0					
	1730	"	1005·5	957·4	..	35·1	19·7	7·4	10·5	19	..	4·5	..	2·9	0	0	22	0	3	0	16	0	0	0	3	9	0				
Chitaldrug . . .	0830	733	1011·8	931·6	+0·6	25·3	18·6	14·0	16·5	52	+2	5·7	+4·4	7·2	0	1	26	0	0	1	8	1	13	4	0	4	0				
	1730	"	1005·5	927·7	..	33·1	19·4	9·8	12·6	25	..	5·5	..	3·8	0	0	27	1	3	2	12	1	6	0	2	4	0				
Shimoga . . .	0830	571	1012·8	949·3	..	23·1	19·4	17·1	19·9	70	..	1·4	..	0·1	0	0	1	0	1	0	0	0	0	0	0	30	0				
	1730	"	1005·6	944·5	..	32·8	20·4	12·3	14·7	31	..	3·3	..	7·5	0	6	21	2	3	5	1	2	6	7	1	4	0				
Balchonnur . . .	0830	..	..	..	..	20·2	17·4	15·5	17·8	76	-3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	"	960	1533·5	908·2	..	22·9	18·6	16·0	18·3	66	+1	1·5	0	2·8	0	0	13	0	1	4	0	1	1	5	1	18	0			
Mysore . . .	0830	"	15																												

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—MARCH, 1958 (PHALGUNA 10, 1879 CHAITRA 10, 1880 SAKA)

195

Division and station	Hour of observation I.S.T.		Height of barometer cistern above mean sea level in metres	Mean pressure in millibars		Mean temperature in °C			Cloud amount (Oktas)	Wind speed (Km. p.h.)	No. of observations										Wind direction										
	J	2		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28		
				At mean sea level or height in g.p.m. of nearest standard isobaric level	Departure from nor- mal	Dry bulb		Wet bulb		Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Mean amount	Departure from normal	Mean wind speed, Km. per hour	62 or more	20 to 61	1 to 19	N	NE	E	SE	S	SW	W	NW	Calm	Variable		
Kerala																															
Kozhikode	.	0530	5	1010.8	1010.3	..	25.5	23.6	22.6	27.6	84	..	2.2	..	5.0	0	0	31	4	19	8	0	0	0	0	0	0	0	0		
	.	0830	"	1012.3	1011.0	+0.7	28.0	24.4	22.7	27.8	73	-3	2.0	-0.1	5.5	0	0	31	1	7	21	1	1	0	0	0	0	0	0		
	.	1130	"	1014.5	1011.9	..	31.7	25.9	23.3	28.8	61	..	2.2	..	9.4	0	0	31	0	0	0	0	0	0	0	0	0	0	0		
	.	1730	"	1009.1	1008.6	..	31.1	26.3	24.3	30.4	67	..	3.1	..	13.3	0	0	31	0	0	1	0	0	0	0	11	19	0	0		
	.	2330	"	1011.8	1011.3	..	28.2	25.2	23.8	29.6	77	..	2.2	..	8.2	0	0	31	10	5	1	0	0	0	0	3	12	0	0		
Palghat	.	0830	97	1012.8	1001.9	..	28.1	24.1	22.1	26.2	70	..	2.4	..	7.4	0	0	25	0	0	16	1	0	1	7	0	6	0	0	0	
Fort Cochin	.	0830	3	1012.5	1012.2	+0.6	28.6	25.0	23.3	28.7	73	-2	4.6	+2.6	5.9	0	0	21	2	0	0	0	0	0	1	15	10	0	0		
Cochin (Naval Air Station)		0230	3	1011.1	1010.9	..	26.4	24.4	23.4	29.1	83	..	3.6	..	2.5	0	0	15	1	6	3	2	0	0	0	3	16	0	0		
	.	0530	"	1011.1	1010.9	..	25.6	24.1	23.4	28.9	88	..	3.2	..	3.2	0	0	18	2	5	10	1	0	0	0	0	13	0	0		
	.	0830	"	1012.5	1012.3	..	28.2	24.6	23.0	28.0	73	..	2.5	..	4.0	0	0	29	3	12	11	2	0	0	0	0	1	2	0		
	.	1130	"	1012.4	1012.2	..	30.9	25.4	22.9	28.4	63	..	3.0	..	10.4	0	0	30	2	0	0	0	1	3	6	18	1	0			
	.	1730	"	1009.4	1009.2	..	30.2	25.4	23.3	28.6	67	..	3.0	..	16.5	0	5	26	0	1	0	0	0	0	15	15	0	0			
Alleppey	.	0830	4	1012.0	1011.6	..	29.2	26.0	24.5	31.0	76	..	3.4	..	4.0	0	0	22	3	1	7	2	1	0	4	4	9	0	0		
Punalur	.	0830	34	1012.2	1008.3	..	25.5	23.4	22.5	27.1	71	..	4.0	..	22.5	0	17	14	1	0	0	1	0	0	11	18	0	0			
Trivandrum		0230	64	1010.1	1002.8	..	26.1	24.1	23.0	28.4	84	..	1.9	..	4.2	0	0	25	9	12	1	1	0	0	0	2	6	0	0		
	.	0530	"	1010.3	1003.0	..	25.2	23.5	22.7	27.6	86	..	1.1	..	3.5	0	0	26	8	9	5	1	0	0	0	0	3	5	0	0	
	.	0830	"	1012.2	1004.9	+0.5	27.3	24.4	22.9	28.4	78	+1	2.2	0	3.0	0	0	24	2	10	1	3	0	0	0	0	8	7	0	0	
	.	1130	"	1011.7	1004.5	..	32.1	25.0	21.5	25.8	54	..	3.8	..	6.5	0	0	31	4	3	0	1	3	11	1	7	0	1	0		
	.	1730	"	1008.9	1001.7	..	30.3	25.1	22.7	27.8	64	..	3.9	..	8.4	0	1	30	1	2	0	2	4	11	5	6	0	0	0		
Trivandrum (Aerodrome)		0830	8	1012.3	1011.4	..	28.3	24.4	22.5	27.5	71	..	2.9	..	4.1	0	0	22	11	5	0	0	0	1	0	5	9	0	0		
Arabian Sea Islands Minicoy*		0530	2																												
	.	0830	"																												
	.	1130	"																												
	.	1730	"																												
	.	2330	"																												
Amini Devi*		0830	4																												
Hill Stations excluding Kashmir.		0830																													
Walung (R)		1730																													
Kohima	.	0830	1406	1557.5	865.2	..	19.3	11.7	3.5	8.2	39	..	1.4	..	..	..	..	..	17	0	3	3	2	2	4	0	0	0	0
Aijal†	.	0830	1097																	0	1	0	0	1	17	7	5	0	0		
Shillong	.	0830	1500	1519.1	852.0	+1.4	19.2	11.0	1.6	7.3	34	-11	2.0	+0.1	2.0	0	0	12	0	0	0	0	1	9	2	0	19	0			
Cherrapunji	.	0830	1313	1518.7	870.7	+0.8	19.2	16.2	13.5	16.2	69	+11	0.8	-2.2	4.0	0	0	31	0	0	1	0	0	0	2	4	0	0	25	0	
Darjiling (Raj Bhawan)		0830	2127	1536.6	793.3	+5.0	14.2	10.0	6.3	9.6	60	-7	2.8	-0.2	0.5	0	0	5	2	0	0	0	0	2	1	0	26	0	0		
Kalimpong	.	0830	1209	1503.7	880.3	+0.2	14.8	13.3	12.4	14.4	84	+22	2.1	+0.3	2.8	0	0	29	0	0	0	0	2	0	0	0	27	2	0		
Katmandu		0830	1337	1535.6	870.3	..	13.2	10.0	7.2	9.5	66	0	2.4	-0.6	0.3	0	0	3	1	0	1	0	0	0	1	28	0	0	0		
Muktawar (Kumaon)		0830	2311	3149.1	774.5	+1.9	10.6	5.0	-2.6	5.2	43	-1	1.7	-0.9	11.0	0	2	28	0	8	7	0	1	2	6	6	1	0	0		
Nainital	.	0830	3140.0	773.0	..	13.1	7.5	1.6	8.6	48	..	2.7	..	19.5	0	12	19	0	2	2	0	0	6	14	7	0	0	0	0		
Tapoban	.	0830	1953	1507.2	806.6	..	12.6	6.6	-0.9	5.4	42	..	2.0	..	3.7	0	0	15	4	2	4	1	0	0	2	2	16	0	0	0	
Badrinath	.	0830	1730	1489.9	805.0	..	14.3	8.1	1.3	6.6	44	..	2.2	..	6.3	0	0	28	5	1	3	2	5	3	9	0	3	0	0	0	
Lokpal (R)		0830				9.2
Mussooree	.	0830	2042	1499.7	797.4	+0.3	12.6	6.8	-0.5	6.3	40	-8	2.6	-0.4	3.2	0	1	21	7	2	0	2	4	1	0	6	9	0	0	0	
	.	1730	"	1486.3	796.6	..	14.7	9.9	6.0	9.0	58	..	3.5	..	3.1	0	0	30	4	3	1	8	10	3	0	1	1	1	0	0	

*Date given as addenda in December 1958 issue.

(B) Register not received

*Data not available.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—MARCH, 1958 (PRALGUNA 10, 1879—CHAITRA 10, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer taken above mean sea level in metres	Mean pressure in millibars		Mean temperature in °C				Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Okta)	Kms.	Wind speed (Km. per h.)	No. of observations															
			At mean sea level or height in G.P.M. of nearest standard isobaric level	At station level	At station level	Departure from normal	Dew point	10								13	14	15	16	17	18	19	20	21	22	23	24	25	26	Calm	Variable
																						N	NE	E	SE	S	SW	W	NW		
I	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28				
Hill Stations excluding Kashmir—Contd.																															
Simla . . .	0830	2202	1507.4	783.1	+1.9	11.1	4.7	-4.9	4.5	36	0	3.3	+0.1	2.3	0	0	22	2	3	3	8	3	1	1	1	9	0				
	1730	"	1495.4	782.3	..	12.6	6.6	-0.4	5.9	44	..	4.0	..	3.3	0	0	29	2	1	0	7	6	6	1	6	2	0				
Dalhousie . . .	0830	1959	1455.3	800.9	..	11.4	5.4	-2.5	5.5	41	..	0.7	..	1.6	0	0	7	0	7	0	0	0	0	0	0	24	0				
	1730	"	1460.6	801.8	..	13.7	9.1	3.9	8.6	54	..	1.1	..	1.0	0	0	5	1	4	0	0	0	0	0	0	26	0				
Dharamshala . . .	0830	1211	1554.1	884.8	..	17.8	11.4	5.5	8.4	46	..	2.7	..	2.6	0	0	22	10	7	2	0	0	0	0	1	2	9	0			
	1730	"	1547.7	883.9	..	20.7	13.7	8.0	10.6	42	..	3.6	..	4.2	0	0	31	0	2	4	2	3	16	4	0	0	0				
Abu . . .	0830	1195	1515.8	883.8	+1.5	20.4	11.4	0.8	6.6	30	-5	0.5	-1.0	4.0	0	0	14	5	2	1	0	0	0	0	2	4	17	0			
	1730	"	1512.7	882.8	..	24.6	13.1	0.9	5.9	21	..	1.6	..	4.6	0	0	16	6	0	1	7	2	1	2	2	3	13	0			
Pachmarhi . . .	0830	1075	1535.3	896.7	+1.1	20.9	13.3	6.3	9.8	41	+4	1.5	-0.1	2.7	0	0	18	0	1	7	2	1	0	0	2	6	14	0			
	1730	"	1520.1	893.9	..	28.3	15.0	2.0	7.4	20	..	2.6	..	7.2	0	0	31	3	3	1	2	0	0	2	6	14	0				
Mahabaleshwar. . .	0830	1382	1529.3	864.8	+0.8	20.4	12.7	5.3	9.0	39	+2	1.8	+1.1	10.7	0	1	30	5	8	12	1	0	0	0	1	4	0	0			
	1730	"	1513.3	863.1	..	24.4	17.1	11.7	14.1	47	..	3.3	..	10.3	0	0	31	4	3	1	0	0	0	2	6	15	0				
Nandi Hills . . .	0830	..	..	..	..	23.0	18.6	15.6	18.1	67	..	4.6	..	..	..	..	0	10	18	2	1	0	0	0	12	12	2	0		
Mercara . . .	0830	1152	1536.3	888.2	+1.2	20.9	16.8	14.9	16.3	70	+1	0.7	-1.9	4.5	0	0	29	0	2	3	0	0	0	0	13	14	0	0			
	1730	"	1516.3	885.8	..	26.5	19.7	15.3	17.1	50	..	2.9	..	5.5	0	0	31	0	2	2	0	0	0	0	1	6	0				
Kodaikanal . . .	0530	2343	3149.8	771.9	..	11.0	7.9	4.2	8.1	68	..	4.4	..	6.0	0	1	24	8	8	4	4	0	0	0	0	0	0	0			
	0830	"	3176.9	773.6	+1.5	14.3	9.8	5.3	9.2	59	+13	2.3	+0.6	9.2	0	2	29	3	16	4	7	1	0	0	0	0	0	0			
	1130	"	3190.3	773.9	..	17.8	12.1	7.2	9.5	53	..	3.4	..	9.4	0	1	30	6	11	6	8	0	0	0	0	0	0	0			
	1730	"	3163.5	772.1	..	15.4	12.5	10.2	12.6	73	..	4.6	..	5.4	0	0	26	5	11	1	8	1	0	0	0	0	5	0			
	2330	"	3169.1	773.7	..	11.9	10.3	8.8	11.2	83	..	4.7	..	7.4	0	2	23	7	9	4	4	1	0	0	0	0	0	23	0		
Ootacamund . . .	0830	2249	1529.6	781.7	+1.0	14.0	10.6	8.1	10.7	70	+20	1.5	-0.2	2.9	0	1	7	1	4	3	0	0	0	0	0	0	21	0			
	1730	"	1502.8	780.3	..	17.7	12.9	10.0	11.8	62	..	4.6	..	5.1	0	0	19	0	3	5	1	1	0	0	0	1	14	0			
Coonoor . . .	0830	1747	1530.1	829.3	..	18.1	13.9	10.8	12.5	65	+10	2.1	-0.1	1.8	0	0	17	2	4	3	4	3	0	0	0	0	0	0	0		
Sikkim Lachen . . .	0830	6.8		
Tibet																															
Yatung (Chumbi)	0830	..	..	..	..	3.5	2.9	2.1	7.2	91	+7	0	-2.4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lhasa . . .	0830	3685	3111.2	633.4	..	5.2	3.1	0.6	6.2	72	..	1.6	..	5.4	0	0	29	0	7	1	10	2	6	1	2	2	0				
Ceylon																															
Colombo . . .	0830	7	1012.4	1011.6	+0.8	26.5	24.4	23.5	29.0	84	-3	3.2	-0.5	5.4	0	1	26	1	8	11	6	1	0	0	0	4	0				
	1730	"	1009.3	1008.5	..	28.8	25.4	23.3	29.6	74	..	5.1	..	11.3	0	0	29	2	4	0	0	0	0	4	11	8	2	0			
Trincomalee . . .	0830	3	1012.5	1012.1	+1.4	27.7	24.9	23.7	29.4	79	-4	3.7	+0.7	9.2	0	3	23	4	3	2	3	3	10	1	0	5	0				
	1730	"	1009.6	1009.2	..	29.0	25.0	23.2	28.5	71	..	3.9	..	12.4	0	4	27	5	9												

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—MARCH, 1958 (PHALGUNA 10, 1879—CHAITRA 10, 1880 SAKA)

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—MARCH, 1958 (PHALGUNA 10, 1879—CHAITRA 10, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres.	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas)	Wind speed (Km. p.h.)	No. of observations													
			At mean sea level or height in g.p.m. of nearest standard isobaric level			At station level								Wind direction													
	At 2	3	4	5	6	7	8	9						N	NE	E	SE	S	SW	W	NW	Calm	Variable				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories—Contd.																											
Kosi Catchment—Contd.																											
Angbung	0830	..	..	..	..	28.0	17.7	19.0	12.8	33	..	1.9	..	4.7	0	0	22	0	4	9	3	1	4	1	0	9	0
Taplejung	0830	..	..	..	..	12.1	10.2	18.4	11.1	79	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1130	..	..	..	..	15.5	9.5	3.8	8.1	46	..	2.5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	18.6	10.8	3.8	8.0	39	..	3.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplethok	0830	..	..	..	..	16.5	10.1	4.1	18.3	45	..	4.4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wallungchung Gola *	0830	(R)	..	..	..	18.3	14.0	10.8	12.9	61	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhojpur	0830	..	..	..	..	17.0	11.0	6.0	9.3	48	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chainpur	0830	..	..	..	..	16.6	10.0	3.9	8.0	43	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	18.6	12.5	6.9	10.1	47	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	19.9	12.9	7.2	9.8	43	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tista Catchment																											
Gangtok	0830	1812	1519.3	821.3	..	12.7	9.0	5.5	9.1	62	..	1.7	..	4.1	0	1	16	6	9	0	0	1	0	0	1	14	0
	1130	"	1508.3	820.7	..	18.1	12.1	7.4	4.8	50	..	2.5	..	6.0	0	1	30	0	1	0	0	9	17	3	1	0	0
	1730	"	1496.0	818.8	..	13.9	10.0	6.6	9.8	62	..	5.6	..	7.0	0	3	26	2	5	2	8	11	0	0	1	2	0
Geyzing	0830	..	..	..	..	15.8	11.5	8.3	10.8	60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	17.1	14.5	13.0	14.8	76	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

*Data not available.

MONTHLY MEANS OF UPPER WINDS, MARCH 1958
(Phalgun 10, 1879—Chaitra 10, 1880 Saka)

During the month, observations of velocity and direction of upper winds were made at 55 stations in India. Out of these, at 43 stations all the observations were taken by means of pilot balloons and at 12 stations some observations were made by means of pilot balloons while the other observations by the radiowind method. Particulars of the stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the table overleaf. All radiowind ascents have been indicated by means of an asterisk (*) against the scheduled hours.

Data from ascents made at the scheduled time or within two hours on either side of the scheduled times of regular observations have been used for averaging.

Data upto 9.0 km. a.m.s.l. are given under Table IV and data above 9.0 km. a.m.s.l. under Table V.

In Tables IV and V:

n—represents the number of observations,

V—represents the mean wind speed in knots irrespective of direction,

v—represents the resultant mean velocity in knots,

D—represents the direction of the resultant mean wind in degrees East of North.

Mean and resultant winds are given in this publication for the following heights:

Surface, 0.15 km. a.g., 0.3, 0.6., 0.9, 1.5, 2.1, 3.0 3.6, 4.5, 5.4, 6.0, 7.2, 9.0, 10.5, 12.0, 14.1 16.2, 18.0, 21.0, 24.0, 27.0, 30.0, 33.0, and 36.0 km. a.m.s.l. Of these the levels 1.5, 3.0, 5.4, 7.2, 9.0 12.0, 14.1 and 16.2 km. a.m.s.l. are considered as the best approximations to the standard pressure levels 850, 700, 500, 400, 300, 200, 150 and 100 mb. respectively.

PARTICULARS OF PILOT BALLOON AND RAWIN STATIONS IN INDIA

No.	Station	Lat. N	Long. E	Height of anemometer head a.m.s.l. in metres	Date of opening	Approximate times of flight (IST)					
1.	Agartala	23°53'	91°15'	17	28th November, 1951	.	.	0530	1130	1730	2330
2.	Ahmedabad	23°04'	72°38'	61	19th May, 1928	.	.	0530	1730	2330	
3.	Amausi	26°45'	80°53'	132	20th November, 1950	.	.	0530	1730	2330	
4.	Ambala	30°23'	76°46'	279	1st April, 1941	.	.	0530	1730	2330	
5.	Amritsar	31°38'	74°52'	243	21st June, 1957	.	.	0530*	1730*		
6.	Anantapur	14°41'	77°37'	364	12th February, 1946	.	.	0530	1730	2330	
7.	Asansol	23°41'	86°59'	135	29th May, 1942	.	.	0530	1130	1730	2330
8.	Baghdogra	26°38'	88°19'	140	7th June, 1953	.	.	0530	1130	1730	2330
9.	Bairagarh	23°17'	77°21'	532	26th February, 1943	.	.	0530	1730	2330	
10.	Bamrauli	25°27'	81°44'	103	28th February, 1930	.	.	0530*	1130	1730*	2330
11.	Bangalore	12°58'	77°35'	936	19th May, 1915	.	.	0530	1730	2330	
12.	Bareilly	28°22'	79°24'	180	12th January, 1943	.	.	0530	1730		
13.	Begumpet	17°27'	78°28'	543	1st September, 1929	.	.	0530	1730	2330	
14.	Bhagalpur	25°14'	86°57'	61	29th May, 1950	.	.	0530	1130	1730	
15.	Bhubaneshwar	20°15'	85°50'	55	5th December, 1942	.	.	0530	1130	1730	2330
16.	Bhuj	23°15'	69°48'	111	14th September, 1937	.	.	0530	1730	2330	
17.	Bikaner	28°00'	73°18'	229	18th October, 1946	.	.	0530	1730	2330	
18.	Chikalthana	19°51'	75°24'	583	7th October, 1951	.	.	0530	1730	2330	
19.	Cochin†	09°56'	76°14'	3	16th March, 1942	.	.	0530	1730	2330	
20.	Darjeeling	27°03'	88°16'	2115	21st May, 1956	.	.	0530	1730		
21.	Dum Dum	22°39'	88°27'	13	14th May, 1921	.	.	0530*	1130	1730*	2330
22.	Gadag	15°25'	75°38'	650	3rd May, 1943	.	.	0530	1730	2330	
23.	Gannavaram	16°32'	80°48'	34	8th April, 1942	.	.	0530	1730	2330	
24.	Gauhati	26°05'	91°43'	51	12th March, 1955	.	.	0530*	1130	1730*	2330
25.	Gaya	24°45'	84°57'	119	19th March, 1937	.	.	0530	1130	1730	2330
26.	Gopalpur	19°16'	84°53'	24	15th February, 1946	.	.	0530	1730	2330	
27.	Gorakhpur	26°45'	83°22'	83	5th January, 1943	.	.	0530	1730		
28.	Gwalior	26°14'	78°15'	219	7th May, 1938	.	.	0530	1730	2330	
29.	Imphal	24°51'	93°58'	805	8th March, 1952	.	.	0530	1130	1730	2330
30.	Jabalpur	23°10'	79°57'	402	30th July, 1928	.	.	0530	1730	2330	
31.	Jagdalpur	19°05'	82°02'	562	25th March, 1948	.	.	0530	1730	2330	
32.	Jaipur	26°49'	75°48'	404	6th June, 1953	.	.	0530	1730		
33.	Jamshedpur	22°49'	86°11'	147	23rd July, 1942	.	.	0530	1130	1730	
34.	Jharsuguda	21°55'	84°05'	240	1st May, 1944	.	.	0530	1730	2330	
35.	Jodhpur	26°18'	73°01'	229	15th October, 1934	.	.	0530*	1130	1730*	2330
36.	Madras	13°00'	80°11'	29	8th April, 1926	.	.	0530*	1130	1730*	2330
37.	Mangalore	12°52'	74°51'	40	4th June, 1928	.	.	0530	1730	2330	
38.	Minicoy	08°18'	73°00'	16	14th April, 1941	.	.	0530	1730	2330	
39.	Mohanbari	27°29'	95°01'	112	1st June, 1948	.	.	0530	1130	1730	2330
40.	Mussoorie	30°27'	78°05'	2050	3rd November, 1955	.	.	0530	1730		
41.	Nagpur	21°06'	79°03'	316	23rd April, 1943	.	.	0530*	1130	1730*	2330
42.	Nanpara	27°50'	81°30'	141	23rd April, 1957	.	.	0530	1730		
43.	New Delhi	28°35'	77°12'	227	20th October, 1936	.	.	0530*	1130	1730*	2330
44.	Poona	18°32'	73°51'	593	5th January, 1925	.	.	0530	1730	2330	
45.	Port Blair	11°40'	92°43'	93	29th October, 1945	.	.	0530*	1130	1730*	2330
46.	Raipur	21°14'	81°39'	308	15th July, 1944	.	.	0530	1730	2330	
47.	Raxaul	26°59'	84°51'	83	28th October, 1957	.	.	0530	1730		
48.	Santa Cruz.	19°07'	72°51'	14	14th May, 1933	.	.	0530*	1130	1730*	2330
49.	Tezpur	26°37'	92°47'	79	12th August, 1932	.	.	0530	1130	1730	2330
50.	Tiruchirapalli	10°46'	78°43'	96	22nd June, 1936	.	.	0530	1730	2330	
51.	Trivandrum	08°29'	76°57'	73	8th December, 1928	.	.	0530*	1130	1730*	2330
52.	Udaipur	24°35'	73°42'	587	24th June, 1947	.	.	0530	1730	2330	
53.	Vengurla	15°52'	73°38'	8	22nd November, 1941	.	.	0530	1730	2330	
54.	Veraval	20°54'	70°22'	17	13th October, 1941	.	.	0530*	1130	1730*	2330
55.	Visakhapatnam	17°43'	83°14'	10	24th September, 1928	.	.	0530	1730	2330	

*Radiowind ascents.

†Naval Meteorological office.

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

March 1958 (Phalgun 10, 1879—Chaitra 10, 1880 Saka)

Station	AGARTALA												AHMEDABAD															
	0530				1130				1730				2330				0530				1730							
Time in I. S. T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D				
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D				
Surface .	31	3.5	2.0	107	31	3.7	1.8	203	31	3.5	0.7	198	31	2.8	1.7	144	31	5.0	3.2	334	31	5.5	2.7	314				
0.15 a.g. .	28	8.4	3.0	185	31	5.8	1.9	226	31	8.6	2.8	235	31	9.6	3.9	205	30	19.3	13.7	333	31	9.3	5.3	304				
0.3 a.m.s.l. .	28	9.7	5.3	260	31	6.3	2.3	227	31	9.0	4.1	226	31	9.7	5.3	228	30	20.1	14.1	355	31	9.3	5.4	300				
0.6 „ .	28	9.9	5.7	274	31	7.0	3.3	244	31	9.1	5.4	227	31	10.4	6.1	243	30	17.8	12.5	352	31	9.1	5.0	296				
0.9 „ .	28	10.1	6.4	277	31	8.3	4.6	246	31	8.6	6.4	233	31	9.9	6.4	254	30	12.0	8.5	342	31	9.1	5.0	293				
1.5 „ .	28	10.8	9.3	285	30	10.0	8.0	266	31	9.0	7.7	261	31	10.3	8.5	266	30	9.4	5.1	36	31	8.6	5.7	291				
2.1 „ .	28	13.5	12.6	282	29	13.4	11.2	275	31	11.6	10.2	270	31	13.3	12.2	275	29	8.2	4.7	284	31	8.7	6.0	290				
3.0 „ .	28	19.0	18.0	275	18	17.7	15.9	273	31	15.9	14.8	277	30	18.0	16.6	279	27	13.4	9.2	247	31	11.9	9.0	271				
3.6 „ .	27	21.3	20.0	275					23	19.7	17.6	269	19	22.2	21.2	260	21	14.3	9.9	245	31	15.3	13.2	267				
4.5 „ .	20	26.0	24.4	271					13	20.8	18.8	283	9	24.4	23.1	275	18	18.2	14.3	255	30	17.1	15.0	269				
5.4 „ .	15	33.0	30.8	265					4	32.5	29.8	278	2	10.5	10.3	253	9	24.9	19.4	265	30	21.3	19.3	271				
6.0 „ .	10	37.7	34.0	276					1	35.0	35.0	310	1	7.0	7.0	300	3	22.7	22.2	289	30	24.3	21.5	273				
7.2 „ .	5	49.2	48.2	266									1	19.0	19.0	280					29	33.6	33.3	272				
9.0 „ .																				16	51.5	49.6	281					
Station	AHMEDABAD				AMAUSI												AMBALA											
Time in I. S. T.	2330				0530				1730				2330				030				1730							
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D				
Surface .	30	5.2	2.3	299	31	2.6	1.6	290	31	6.6	5.3	311	31	2.7	1.7	305	31	5.5	2.4	337	31	5.9	3.3	300				
0.15 a.g. .	30	15.8	6.5	315	31	12.5	7.9	323	31	11.0	8.0	307	30	12.9	10.0	320	31	15.5	8.8	355	31	13.6	7.7	307				
0.3 a.m.s.l. .	30	15.1	6.5	314	31	12.5	8.5	324	31	11.3	8.6	318	30	12.9	10.0	320	31	7.7	3.8	347	31	7.4	4.3	305				
0.6 „ .	30	13.1	7.4	321	31	13.0	9.9	320	31	12.9	11.1	304	30	14.4	11.4	315	31	15.1	8.7	345	31	15.0	8.7	311				
0.9 „ .	30	10.8	7.2	318	30	13.1	10.6	312	31	13.0	10.8	302	30	13.5	11.2	308	31	14.7	9.7	337	31	15.2	8.6	305				
1.5 „ .	30	8.3	4.8	304	30	16.0	11.7	303	30	12.4	10.9	297	27	12.6	11.2	300	31	14.5	7.3	329	31	15.5	8.6	305				
2.1 „ .	30	7.5	4.2	284	27	17.2	15.6	294	30	15.0	13.5	294	26	14.5	13.3	286	31	15.1	10.4	300	31	15.4	8.6	310				
3.0 „ .	30	12.0	7.1	267	9	19.8	19.0	286	29	19.4	17.7	286	10	15.6	14.9	275	27	13.8	11.4	296	29	14.5	10.1	307				
3.6 „ .	24	13.6	7.9	243	1	18.0	18.0	310	27	23.6	21.8	280	2	19.0	19.0	260	10	13.4	12.1	290	28	14.5	11.2	303				
4.5 „ .	13	17.0	13.8	235					22	26.4	25.0	277					3	18.0	17.4	275	26	17.2	14.9	297				
5.4 „ .	4	14.5	12.5	247					16	25.7	24.1	277					2	23.5	22.0	294	25	19.8	16.9	297				
6.0 „ .	4	17.7	16.3	262					10	31.4	29.6	265					1	23.0	23.0	330	23	23.3	19.6	296				
7.2 „ .									2	40.5	40.3	275								17	80.2	24.7	290					
9.0 „ .																	9	88.7	35.3	287								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

March 1958 (Phalgun 10, 1879—Chaitra 10, 1880 Saka)

Station	AMBALA				AMRITSAR				ANANTAPUR																
	2330				0530*				1730*				0530				1730				2330				
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Surface	31	7.5	4.5	346	31	4.2	2.6	002	31	6.1	2.9	349	31	3.1	2.0	180	31	7.5	6.1	090	31	8.3	7.3	107	
0.15 a.g.	31	19.7	13.9	348	24	6.1	3.8	016	27	6.9	4.7	342	31	9.3	5.4	192	31	10.6	7.9	089	31	14.2	12.6	110	
0.3 a.m.s.l.	31	10.3	6.8	346	24	5.4	3.5	078	27	6.2	3.6	348													
0.6 ,,	31	18.4	12.6	344	24	12.0	4.8	344	27	12.1	7.1	215	31	10.2	6.0	194	31	10.5	7.7	088	31	15.4	13.7	114	
0.9 ,,	31	16.4	11.6	338	24	11.6	3.4	331	27	12.1	7.1	316	31	11.7	6.5	179	31	9.4	6.9	086	31	16.0	14.3	117	
1.5 ,,	31	14.0	8.9	316	24	12.6	5.3	289	28	11.1	5.5	288	31	11.8	6.2	150	31	8.0	6.0	081	31	10.0	8.9	113	
2.1 ,,	31	13.4	9.9	290	24	14.0	7.6	285	28	12.0	6.5	286	31	10.6	6.7	105	30	8.0	6.1	085	31	6.8	4.1	100	
3.0 ,,	29	14.8	10.7	281	24	16.2	10.9	290	28	13.5	9.7	286	30	9.3	5.1	046	29	7.3	2.9	090	30	7.4	1.2	328	
3.6 ,,	13	15.0	13.0	279	24	18.9	13.0	284	28	15.7	11.7	267	27	9.9	4.0	016	27	6.7	0.3	201	28	8.7	4.6	294	
4.5 ,,	5	12.6	10.7	262	24	22.2	16.7	287	28	19.1	14.6	270	25	9.5	3.2	266	23	11.8	9.0	246	21	10.4	6.0	280	
5.4 ,,	2	15.5	11.9	292	24	24.2	19.8	278	28	21.4	17.9	264	16	16.7	13.3	258	20	14.0	10.9	266	14	15.1	10.3	270	
6.0 ,,	1	6.0	6.0	360	19	28.1	25.3	279	28	24.0	21.1	271	14	19.3	15.7	250	19	16.4	13.0	278	8	17.4	11.1	280	
7.2 ,,					18	36.0	33.3	279	27	30.1	26.6	280	6	25.5	23.0	269	16	22.6	19.3	266	4	17.3	11.6	300	
9.0 ,,					17	48.4	43.5	276	24	41.4	40.8	276	3	20.6	20.2	307	12	27.6	25.8	256	1	47.0	47.0	345	

Station	ASANSOL								BAGHDOGRA															
	0530				1130				1730				2330				0530				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2.7	2.1	279	31	4.8	4.0	299	31	3.5	2.9	298	31	3.0	2.2	286	31	3.2	2.3	034	31	8.0	5.7	111
0.15 a.g.	31	10.5	8.1	288	31	10.7	8.8	305	31	10.2	8.1	298	31	12.1	7.7	302	31	10.0	8.8	052	30	8.0	6.8	106
0.3 a.m.s.l.	31	10.7	7.9	295	31	10.6	8.5	302	31	10.3	8.1	298	31	12.3	7.8	304	31	10.1	9.4	057	30	8.2	7.0	107
0.6 ,,	31	12.9	9.6	309	31	10.2	8.5	301	31	11.2	9.4	298	31	14.4	9.9	306	31	10.2	9.2	071	30	7.9	6.3	102
0.9 ,,	31	13.7	10.9	306	31	11.4	9.8	297	31	11.3	10.0	296	31	13.6	11.0	301	31	9.0	5.9	267	30	7.8	5.4	101
1.5 ,,	31	14.1	12.0	291	31	12.4	10.9	294	31	11.9	11.1	285	31	13.1	11.5	290	31	6.0	0.7	064	30	8.0	0.5	189
2.1 ,,	30	15.5	13.3	286	26	16.3	13.7	296	31	14.2	13.1	287	30	13.8	12.6	283	31	9.0	5.7	267	25	9.9	5.3	272
3.0 ,,	20	17.7	15.7	280	3	26.7	21.8	261	25	16.9	16.0	287	15	16.3	15.5	286	31	14.5	7.3	282	2	12.0	11.4	261
3.6 ,,	8	17.3	14.9	278					18	19.8	18.8	287	3	19.3	18.5	284	31	18.9	17.3	280				
4.5 ,,	2	22.0	21.1	258					10	21.2	19.9	290					27	23.2	22.6	278				
5.4 ,,	1	46.0	46.0	240					6	21.0	18.9	281					20	26.6	25.0	283				
6.0 ,,									4	31.3	28.9	282					14	26.3	24.2	282				
7.2 ,,									1	35.0	35.0	310					7	28.6	27.0	283				
9.0 ,,																	2	15.0	14.9	282				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

March 1958 (Phalgun 10, 1879—Chaitra 10, 1880 Saka)

Station	BAGHDOGRA								BAIRAGARH								BAMRAULI							
	1730				2330				0530				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	3.3	1.2	247	31	3.9	3.1	351	31	3.0	0.7	045	31	5.9	3.3	276	31	3.9	1.3	011	31	3.2	2.1	285
0.15 a.g. .	31	6.7	1.8	251	30	7.8	5.2	044	31	13.6	4.0	057	31	10.2	6.1	282	31	12.4	5.4	006	29	6.7	4.7	300
0.3 a.m.s.l. .	31	6.8	1.8	256	30	7.8	4.7	047												29	7.8	5.6	300	
0.6 „ .	31	7.8	3.9	258	30	8.0	5.4	072	31	12.6	3.7	057	31	9.8	6.1	280	31	12.6	4.5	013	29	10.6	8.3	310
0.9 „ .	31	8.0	4.9	253	30	7.8	2.8	273	31	13.7	4.0	043	31	10.2	6.4	285	31	10.6	5.4	347	29	12.2	9.3	302
1.5 „ .	31	9.4	7.9	253	30	10.0	7.2	268	31	8.3	3.1	326	31	8.9	6.7	282	31	8.5	4.2	323	29	14.8	12.3	298
2.1 „ .	31	11.2	9.5	262	30	12.5	8.3	260	31	8.6	5.3	283	31	9.7	7.7	276	31	9.3	6.2	263	29	18.0	15.2	291
3.0 „ .	31	13.6	11.0	272	23	13.7	11.2	268	31	13.8	9.7	271	30	10.9	8.5	263	31	12.9	9.6	258	29	22.0	20.5	284
3.6 „ .	29	15.6	13.7	279	16	16.9	15.7	270	20	16.1	13.2	279	25	15.0	12.0	271	14	17.9	13.0	278	28	24.1	23.2	282
4.5 „ .	27	21.0	20.1	279	6	20.0	18.7	277	4	18.5	18.3	285	20	17.1	15.0	273	1	13.0	13.0	300	28	26.4	25.2	280
5.4 „ .	21	29.6	29.2	280	2	11.5	7.5	311					19	23.4	21.3	278					27	27.5	26.7	273
6.0 „ .	20	34.0	33.2	282	1	17.0	17.0	085					17	27.2	24.9	275					26	29.1	28.3	270
7.2 „ .	11	38.4	36.7	286									8	35.3	34.3	280					25	38.0	36.8	268
9.0 „ .	1	65.0	65.0	300									2	33.0	33.0	280					18	54.5	52.3	262

Station	BAMRAULI								BANGALORE																
	1130				1730*				2330				0530				1730				2330				
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Surface .	31	6.6	4.6	277	31	7.2	4.3	299	31	2.3	0.5	268	31	5.9	3.1	145	31	7.3	5.4	098	31	8.8	8.3	116	
0.15 a.g. .	30	7.8	5.2	291	30	8.3	5.5	300	31	13.7	6.6	327	31	11.5	6.3	156	31	9.3	7.1	092	31	16.7	15.2	118	
0.3 a.m.s.l. .	30	8.0	5.7	292	30	9.6	6.8	296	31	14.3	6.9	330													
0.6 „ .	30	8.9	6.6	289	30	10.8	7.9	298	31	15.2	8.6	320													
0.9 „ .	29	10.9	8.0	293	30	12.4	10.1	300	31	15.9	10.4	310													
1.5 „ .	29	14.1	11.8	289	30	13.8	12.2	292	31	15.5	12.8	299	31	13.3	6.6	140	31	9.0	8.0	093	31	18.5	16.9	116	
2.1 „ .	29	17.4	15.2	290	30	16.0	15.0	284	27	17.4	14.5	284	31	11.6	7.7	094	31	8.5	7.4	085	31	11.0	7.3	107	
3.0 „ .	29	23.2	19.7	287	30	20.3	18.7	277	17	22.8	21.1	275	29	11.3	10.1	054	30	7.4	5.3	058	27	7.0	5.3	033	
3.6 „ .	27	25.0	21.7	283	30	23.6	22.3	276	2	21.5	21.3	303	28	10.3	6.1	051	29	7.2	3.8	050	26	10.3	4.5	040	
4.5 „ .	24	27.5	25.2	272	30	27.6	26.7	277	1	11.0	11.0	315	23	7.9	3.2	221	23	8.4	3.3	287	21	8.7	1.9	015	
5.4 „ .	23	30.5	29.9	272	29	30.2	29.0	271	1	26.0	26.0	280	15	12.9	7.6	235	20	11.0	6.1	252	18	10.2	2.6	275	
6.0 „ .	21	35.4	33.8	270	29	32.1	30.5	270					10	14.1	12.0	268	17	12.8	8.4	261	13	12.9	8.1	279	
7.2 „ .	12	38.8	38.1	263	27	41.0	38.5	269					4	10.5	10.0	260	16	18.4	13.2	260	5	15.8	7.0	239	
9.0 „ .	3	45.7	44.2	264	24	57.3	53.7	264					13	23.0	18.0	240	4	21.7	14.4	219					

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 0.0 km. above mean sea level

March, 1958 (Phalguna 10, 1879—Chaitra 10, 1880 Saka)

Station	BAREILLY								BEGUMPET								BHAGALPUR							
	0530				1730				0530				1730				2330				0530			
Time in I. S. T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . . .	31	5.6	3.3	312	31	6.3	4.7	296	31	1.8	1.1	093	31	6.1	4.1	092	31	3.5	3.0	123	31	4.1	1.6	240
0.15 a.g. . .	31	16.0	12.5	324	31	12.4	10.0	289	31	10.6	6.8	139	30	8.9	6.6	100	31	13.9	11.2	114	31	10.9	5.8	296
0.3 a.m.s.l. . .	31	15.4	11.9	321	31	11.8	9.6	298													31	10.8	7.0	292
0.6 . . .	31	17.9	14.4	321	31	14.5	9.6	298	31	6.7	4.1	131	30	7.9	6.0	099	31	8.8	6.9	111	31	10.9	9.1	302
0.9 . . .	31	17.0	14.1	314	31	15.4	13.6	297	30	14.0	8.9	153	30	9.1	6.7	106	31	15.1	12.6	124	31	11.3	10.3	295
1.5 . . .	30	18.2	15.7	305	30	14.9	10.0	299	29	13.8	7.1	12	29	8.0	4.7	121	31	12.3	8.6	130	31	14.0	13.6	286
2.1 . . .	27	20.0	17.4	298	28	15.5	13.3	298	28	11.6	2.1	098	29	8.3	2.8	143	30	9.9	1.9	174	25	15.5	14.5	287
3.0 . . .	17	16.9	14.7	290	28	17.5	15.4	292	27	11.2	4.1	302	29	9.6	4.4	244	29	11.3	5.7	313	13	16.5	15.7	290
3.6 . . .	6	16.2	15.5	276	25	19.0	17.1	289	25	12.6	6.5	293	24	10.0	5.7	262	18	13.0	9.3	303	4	22.7	22.3	267
4.5 . . .	3	15.3	14.4	282	23	21.3	19.7	285	25	13.2	6.9	259	22	14.0	10.6	255	3	15.7	15.7	240	3	19.7	19.3	278
5.4 . . .					20	22.6	21.3	284	23	14.1	10.1	273	19	17.8	15.3	277	2	16.0	16.0	253				
6.0 . . .					16	25.0	23.2	282	21	16.1	12.8	283	17	22.1	19.8	24								
7.2 . . .					10	30.3	28.3	275	5	30.4	28.1	276	15	29.7	27.1	265								
9.0 . . .					2	45.0	44.7	279	4	47.0	44.5	259	11	37.8	35.0	265								
Station	BHAGALPUR								BHUBANESHWAR															
Time in I.S.T.	1130				1730				0530				1130				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . . .	31	4.9	4.0	274	31	5.7	4.9	283	31	2.3	1.6	230	31	5.9	4.3	239	31	8.9	6.0	170	31	4.5	4.1	212
0.15 a.g. . .	31	8.3	6.3	289	31	12.7	11.1	299	31	9.9	7.5	243	31	7.4	2.3	244	31	11.2	5.8	178	31	12.3	11.3	217
0.3 a.m.s.l. . .	31	8.6	6.3	297	31	13.5	12.1	299	31	10.0	7.1	242	31	7.3	2.0	261	31	11.5	5.9	189	31	12.7	11.3	217
0.6 . . .	31	10.3	7.3	298	31	11.0	12.4	295	31	9.9	5.9	241	31	7.6	1.4	281	31	9.8	4.6	208	31	11.9	9.2	219
0.9 . . .	30	11.3	9.1	285	31	14.7	13.6	291	31	9.7	4.6	256	31	7.8	2.4	280	31	7.8	3.4	258	31	10.4	6.7	231
1.5 . . .	29	13.3	11.8	280	28	15.4	14.5	279	30	8.1	5.0	304	30	8.4	3.9	341	31	8.9	6.3	291	31	8.1	5.8	298
2.1 . . .	24	15.2	13.7	281	24	17.1	16.2	275	26	9.0	6.3	309	27	9.8	6.7	323	29	11.6	9.4	305	30	10.3	8.4	309
3. . .	12	17.9	17.7	211	18	19.7	19.3	283	25	11.0	8.6	306	24	11.5	7.8	301	28	15.0	13.2	306	29	12.0	10.0	299
3.6 . . .					16	20.1	19.9	285	21	13.0	11.1	287					26	16.8	14.5	301	8	13.9	12.6	260
4.5 . . .					15	23.9	23.3	280	16	18.4	15.7	276	3	14.0	14.0	325	20	19.9	17.8	297	3	13.0	12.4	155
5.4 . . .					12	31.0	29.4	200	10	22.8	21.3	262					15	21.7	18.7	175	1	16.0	16.0	280
6.0 . . .					12	30.7	29.5	280	5	19.0	17.5	257					13	21.7	20.2	273	1	31.0	31.0	270
7.2 . . .					6	37.3	34.5	274	1	43.0	48.0	265					8	31.7	29.4	271				
9.0 . . .																	1	62.0	62.0	265				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

March 1958 (Phalguna 10, 1879—Chaitra 10, 1880 Saka)

Station	BHUJ								BIKANER																
	0530				1730				2330				(53)				1730				2330				
Time in I. S. T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Ht. in Km.																									
Surface . .	31	3.2	2.4	257	31	6.6	3.7	282	31	4.7	3.7	258	31	1.8	0.3	123	31	3.0	2.1	267	31	3.8	2.5	012	
0.15 a.g. . .	31	13.7	9.3	310	31	9.4	6.3	266	31	14.5	9.6	285	31	13.9	10.5	091	31	7.0	4.6	281	31	14.3	8.9	025	
0.3 a.m.s.l. . .	31	14.6	10.2	317	31	9.6	6.4	266	31	15.1	9.9	287	31	11.6	6.6	101	31	9.5	4.1	285	31	12.5	7.6	015	
0.6 . , .	31	15.6	10.4	317	31	9.6	6.0	271	31	13.6	8.4	300	31	12.7	4.9	071	31	7.5	5.2	284	31	14.2	7.7	010	
0.9 . , .	31	12.2	6.9	311	31	10.1	5.7	274	31	10.1	4.9	318	31	10.7	1.9	022	31	7.6	5.0	287	31	13.2	5.8	347	
1.5 . , .	3.	10.2	3.9	279	31	9.9	4.9	277	31	8.5	2.0	298	31	11.5	6.5	291	31	8.3	5.5	265	30	9.4	4.1	276	
2.1 . , .	30	11.2	3.9	241	31	11.2	5.3	263	31	10.2	3.2	224	30	13.6	10.5	292	31	9.0	6.7	271	29	9.5	6.2	257	
3.0 . , .	30	12.8	6.8	231	31	11.6	7.8	252	31	12.8	5.1	240	30	16.6	12.6	288	29	10.6	9.2	267	27	13.2	10.1	261	
3.6 . , .	13	15.7	8.5	236	31	12.5	9.5	258	18	14.6	8.7	241	24	16.7	13.1	292	28	13.2	10.9	271	23	16.0	12.5	258	
4.5 . , .	5	9.8	6.1	257	31	15.9	12.6	267	4	19.0	15.3	241	10	16.8	13.6	282	27	19.1	17.0	275	9	17.1	15.8	272	
5.4 . , .	1	5.0	5.0	285	31	19.8	17.6	281	1	8.0	8.0	270	2	23.0	22.9	236	24	26.3	24.5	272	4	18.5	13.5	284	
6.0 . , .					30	25.3	23.3	282	1	2.0	2.0	270	2	24.0	20.6	218	22	47.0	30.4	272	2	21.0	21.0	287	
7.2 . , .					19	33.7	32.7	279								13	37.2	36.5	273	1	17.0	17.0	305		
9.0 . , .					3	44.7	44.1	285								5	57.4	55.6	271						
Station	CHIKALTHANA								COchin																
Time in I. S. T.	0530				1730				2330				0530				1730				2330				
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Surface . .	31	4.1	2.4	328	31	4.2	2.2	266	31	5.6	3.7	323	31	1.3	1.2	049	31	8.3	7.1	298	31	2.5	1.0	006	
0.15 a.g. . .	31	10.4	6.2	011	31	6.6	3.5	268	31	13.5	8.9	355	31	5.8	5.1	037	30	10.6	10.0	286	22	5.9	3.0	343	
0.3 a.m.s.l. . .													31	6.2	5.5	352	30	11.5	10.8	288	22	6.2	4.5	340	
0.6 . , .													31	6.3	5.3	336	30	8.8	7.5	287	22	7.1	4.7	333	
0.9 . , .	31	13.2	7.9	023	31	7.7	4.0	279	31	15.7	10.8	360	31	5.8	3.3	344	30	6.0	2.8	316	22	7.0	3.3	358	
1.5 . , .	31	11.8	6.1	033	31	7.4	4.0	278	31	11.1	7.2	004	31	5.7	3.1	074	30	9.7	8.6	068	20	8.7	5.9	080	
2.1 . , .	31	10.8	1.8	100	31	6.8	3.4	274	31	8.5	1.8	001	26	1.6	9.5	073	29	15.7	14.8	064	18	12.3	10.3	082	
3.0 . , .	30	9.3	5.2	208	30	8.4	5.0	248	30	10.4	6.1	202	25	14.2	12.2	068	26	15.8	14.1	074	11	15.4	15.1	076	
3.6 . , .	25	10.3	6.4	245	29	10.2	7.5	239	19	11.9	9.5	217	22	11.3	7.5	084	25	10.7	7.5	074	8	13.0	11.4	084	
4.5 . , .	8	12.9	12.3	285	21	14.9	13.8	246	8	8.3	7.3	279	13	8.8	3.2	146	20	9.6	1.3	057	1	16.0	16.0	080	
5.4 . , .					20	20.1	18.7	269	3	11.7	10.6	28	5	12.0	6.6	252	17	9.1	0.7	221					
6.0 . , .					18	24.7	22.8	270	2	15.0	14.3	275	4	12.0	6.5	275	10	11.5	4.4	229					
7.2 . , .					5	28.8	27.7	280					4	11.7	9.9	245	4	12.7	8.4	254					
9.0 . , .													2	13.5	9.5	239	3	19.0	11.2	261					

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

March 1958 (Phalgun 10, 1879—Chaitra 10, 1880 Saka)

Station	DARJEELING								DUM DUM															
	0530				1730				0530*				1130				1730*				2330			
Time in I. S. T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
	Ht. in Km.																							
Surface . .	31	2.2	0.9	052	31	6.1	5.1	248	31	2.3	0.6	273	31	3.8	2.1	281	31	3.1	1.7	253	31	3.2	2.4	193
0.15 a.g. . .	23	3.4	0.7	029	9	6.2	5.7	218	31	10.9	6.1	274	31	7.6	4.8	295	31	8.0	4.4	269	31	12.3	8.1	225
0.3 am 1. .									31	11.3	6.3	287	31	7.9	5.5	300	31	8.3	5.1	269	31	12.5	8.8	229
0.6 „ .									31	10.7	6.8	294	31	8.5	5.9	300	31	8.0	5.5	280	31	10.7	7.1	246
0.9 „ .									31	10.5	7.5	300	31	9.2	6.9	293	31	8.8	6.4	290	31	9.4	6.3	264
1.5 „ .									31	10.7	9.6	303	31	10.1	8.5	287	31	8.5	7.9	300	31	10.7	9.0	295
2.1 „ .									31	11.4	10.7	303	31	12.5	11.2	284	31	13.8	9.8	305	31	12.3	11.2	301
3.0 „ .	23	9.8	8.9	274	9	6.2	4.7	287	31	15.3	14.5	292	29	16.6	15.2	285	31	15.3	14.4	293	30	16.6	15.8	295
3.6 „ .	22	15.2	14.5	277	8	8.9	8.4	312	..	..	..	..	29	21.1	19.1	285	..	..	..	..	3	15.6	14.7	282
4.5 „ .	15	22.2	18.1	272	6	16.1	11.0	283	31	23.5	22.4	277	28	25.0	23.2	277	31	24.7	22.5	283				
5.4 „ .	3	23.0	23.0	263	6	14.2	13.7	268	31	26.9	25.5	272	26	28.5	26.9	278	31	29.7	29.4	275				
6.0 „ .					1	15.0	15.0	260	31	31.0	29.8	268	25	34.0	31.2	273	30	31.4	29.2	273				
7.2 „ .					1	39.0	39.0	280	31	41.5	40.4	266	14	43.9	41.8	265	31	42.9	42.2	268				
9.0 „ .									29	57.5	55.3	263	2	75.0	73.4	260	30	60.3	56.4	262				

Station	GADAG								GANNAVARAM															
	0530				1730				2330				0530				1730				2330			
Time in I. S. T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	5.9	1.1	182	31	3.8	1.5	091	31	8.8	3.5	278	31	2.8	2.3	113	31	8.2	7.6	150	31	4.1	3.2	144
0.15 a.g. . .	31	11.6	0.4	143	31	6.8	1.2	129	31	15.9	6.4	292	31	8.8	7.3	172	31	9.9	9.4	155	31	11.4	10.3	156
0.3 a.s.l. .													31	10.4	9.1	171	31	10.1	9.7	154	31	12.4	11.5	156
0.6 „ .													31	11.5	10.3	167	31	9.7	9.2	154	31	11.1	10.2	152
0.9 „ .	31	12.1	1.5	073	31	7.0	1.7	097	31	16.8	6.6	304	31	10.9	9.2	160	31	8.3	7.1	155	31	9.0	7.3	147
1.5 „ .	31	10.3	4.0	064	31	7.2	2.3	090	31	9.5	3.9	051	30	9.5	5.3	138	31	6.8	2.6	135	31	9.1	5.2	125
2.1 „ .	31	8.0	3.9	093	31	7.4	2.0	085	31	10.2	8.2	100	28	9.7	3.5	090	31	8.9	2.1	021	31	8.8	3.6	054
3.0 „ .	30	8.6	1.2	141	31	7.0	2.2	094	29	10.8	6.3	104	24	9.3	3.7	342	31	10.5	6.5	360	30	9.0	3.3	015
3.6 „ .	26	8.5	1.5	272	27	6.6	1.1	197	28	11.5	2.6	096	15	10.8	3.8	316	31	10.3	5.6	327	22	10.7	4.6	310
4.5 „ .	18	12.2	9.8	253	18	9.0	5.9	258	23	10.5	4.7	260	7	10.3	8.7	203	31	13.0	9.4	270	11	12.7	9.4	282
5.4 „ .	6	11.8	10.7	246	11	14.7	11.3	268	16	13.6	9.3	266	1	34.0	34.0	260	30	18.7	16.0	269	4	13.3	8.4	310
6.0 „ .	1	25.0	25.0	240	11	18.7	15.6	272	6	17.5	15.5	270					28	22.6	19.6	266	1	10.0	10.0	040
7.2 „ .					8	29.0	28.6	265								17	29.9	27.0	259					
9.0 „ .					5	41.0	40.0	264								7	40.3	35.1	265					

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

March 1958 (Phalgun 10, 1870—Chaitra 10, 1880 Saka)

Station	GAYA					GOPALPUR					GORAKHPUR									
Time in I.S.T.	1730				2330	0530				1730	2330				0530					
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	7.6	7.1	310	31	5.1	2.1	293	31	2.0	1.2	251	31	7.2	6.5	184	31	6.9	5.8	214
0.15 a.g. . .	31	14.5	12.8	297	31	13.5	10.6	295	31	7.4	5.3	230	30	13.6	12.1	187	31	12.5	10.8	213
0.3 a.m.s.l. . .	31	14.8	13.4	299	31	14.5	11.0	300	31	8.1	5.3	240	30	13.4	11.1	177	31	12.2	10.3	212
0.6 „ . .	31	15.3	13.7	297	31	16.0	13.3	303	31	8.9	5.3	242	30	10.0	6.3	165	31	10.9	8.6	205
0.9 „ . .	31	15.1	13.9	293	31	15.6	13.7	295	31	8.4	4.3	242	30	7.7	2.1	208	31	9.3	5.8	200
1.5 „ . .	31	15.9	14.9	286	30	16.7	15.3	286	31	7.8	3.2	255	30	7.5	3.5	326	29	8.0	2.0	278
2.1 „ . .	30	17.2	16.5	279	26	18.9	17.0	276	30	9.4	5.7	318	28	11.5	8.0	325	27	8.9	6.0	330
3.0 „ . .	24	20.5	20.0	276	14	24.1	17.6	285	29	11.1	5.4	331	27	13.5	11.7	316	22	12.5	10.0	318
3.6 „ . .	18	22.9	16.3	278	1	19.0	19.0	290	21	12.4	10.9	283	27	16.0	14.3	299	17	14.5	11.7	302
4.5 „ . .	9	28.3	27.5	287					8	18.1	16.3	246	24	18.6	17.2	272	4	17.3	15.7	287
5.4 „ . .	7	28.7	28.3	284					4	20.3	20.1	237	22	22.2	20.5	266	2	25.0	24.7	261
6.0 „ . .	4	25.7	25.5	288					2	32.0	32.0	235	21	26.6	26.2	263	1	27.0	27.0	280
7.2 „ . .													15	38.3	35.5	261				
9.0 „ . .													2	49.5	47.6	256				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

March 1958 (Phalguni १०, १८७९—Chaitra १०, १८८० Saka)

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

March 1958 (Phalgun 10, 1879—Chaitra 10, 1880 Saka)

Station	JAGDALPUR								JAIPUR								JAMSHEDPUR								
	1730				2330				0530				1730				0530				1130				
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Ht. in Km.																									
Surface . .	31	3.3	0.6	237	31	1.8	0.8	181	31	3.0	2.0	064	31	4.3	3.0	292	31	2.7	2.0	297	31	3.2	2.4	287	
0.15 a.g. . .	31	8.3	1.3	282	31	12.4	4.0	157	30	12.7	3.0	017	31	9.6	6.3	278	30	6.4	4.7	283	30	4.6	3.4	292	
0.3 a.m.s.l. . .																									
0.6 „ . .	31	6.0	1.5	279	31	7.7	2.5	165	30	13.7	6.0	052	31	10.1	6.4	280	30	8.2	5.3	295	31	6.3	4.1	296	
0.9 „ . .	31	8.6	2.1	281	31	13.3	3.4	172	30	13.7	3.1	020	31	10.1	6.8	285	30	10.3	6.9	305	31	8.8	6.3	300	
1.5 „ . .	31	7.0	3.0	307	31	9.4	1.0	320	31	11.2	5.7	292	31	9.8	7.0	285	30	11.7	9.4	290	31	11.8	9.4	290	
2.1 „ . .	31	5.9	3.6	316	31	8.4	3.1	317	30	11.8	7.9	295	30	10.4	8.0	286	30	13.7	11.8	287	26	14.9	12.1	295	
3.0 „ . .	29	7.8	4.6	330	30	9.0	5.8	288	26	14.1	11.5	280	27	11.9	9.3	275	22	17.4	16.8	290	17	16.4	14.4	283	
3.6 „ . .	22	8.9	5.1	318	17	13.0	9.4	297	19	18.5	16.4	265	27	15.0	12.3	275	13	19.6	17.9	290					
4.5 „ . .	16	15.1	9.9	268	6	17.5	14.3	288	9	22.3	19.4	258	25	20.8	16.2	280	3	18.3	18.1	280					
5.4 „ . .	14	20.6	19.8	276					4	20.5	20.0	260	22	23.5	21.1	278	1	10.0	10.0	300					
6.0 „ . .	11	24.5	23.6	281					1	16.0	16.0	245	21	24.9	24.8	276									
7.2 „ . .	7	29.4	27.5	276									16	33.4	32.2	277									
9.0 „ . .	1	60.0	60.0	245									8	43.3	42.5	267									

Station	JAMSHEDPUR								JHARSUGUDA								JODHPUR								
	1730				0530				1730				2330				0530*				1130				
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Ht. in Km.																									
Surface . .	31	3.3	1.9	283	31	2.8	1.9	018	31	3.4	0.9	198	31	3.2	1.1	327	31	5.3	3.5	025	31	4.9	1.2	167	
0.15 a.g. . .	31	6.4	3.5	294	30	7.9	4.2	025	31	7.0	2.8	186	30	8.7	1.0	273	31	6.8	3.2	018	30	6.7	1.8	191	
0.3 a. m.s.l. . .	31	6.3	3.8	295	30	6.7	4.9	029	31	6.6	2.5	188	30	7.4	0.3	018	31	6.5	3.2	020	30	6.5	1.6	214	
0.6 „ . .	31	7.7	5.9	293	30	8.5	2.2	004	31	7.0	2.5	219	30	8.6	2.7	303	31	8.3	3.0	348	30	7.3	1.3	192	
0.9 „ . .	31	9.0	7.7	291	30	8.5	2.1	335	31	7.3	3.1	261	30	9.0	3.5	319	31	10.1	3.4	310	31	7.7	1.1	258	
1.5 „ . .	30	10.9	9.8	288	30	8.9	4.5	300	30	8.6	6.9	295	30	8.9	5.6	318	31	10.4	6.2	282	31	10.0	3.9	274	
2.1 „ . .	29	12.8	11.5	292	30	11.6	8.5	284	30	11.5	10.3	300	29	10.5	8.0	306	31	12.0	8.3	280	31	11.1	5.0	269	
3.0 „ . .	28	17.6	16.6	295	30	14.0	12.0	290	30	14.8	13.2	293	27	12.8	10.3	300	30	13.0	9.2	273	31	13.7	8.7	270	
3.6 „ . .	24	19.9	18.2	270	16	15.7	13.9	290	28	17.5	15.7	295	19	15.5	12.8	291	30	14.2	11.3	267	31	14.2	11.4	263	
4.5 „ . .	19	22.9	21.6	277	2	18.0	17.9	295	24	19.7	17.3	288					30	17.4	15.0	270	30	17.0	14.9	265	
5.4 „ . .	14	29.7	27.6	271	1	21.0	21.0	275	19	23.8	22.3	278					29	24.1	22.2	270	30	22.3	20.7	269	
6.0 „ . .	12	29.4	27.9	273	1	30.0	30.0	265	11	24.6	23.6	264					29	27.7	25.8	270	29	26.0	24.2	269	
7.2 „ . .	6	34.2	33.2	274					3	34.0	32.3	291					29	34.3	32.4	270	25	34.0	32.0	272	
9.0 „ . .	1	60.0	60.0	260					2	45.5	45.5	295					28	53.0	49.5	270	12	40.8	38.7	273	

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

March 1958 (Phalgun 10, 1879—Chaitra 10, 1880 Saka)

Station	JODHPUR								MADRAS															
	1730*				2330				0530*				1130				1730*				2330			
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	6.2	3.5	282	31	4.7	1.5	325	31	3.8	1.6	180	31	6.4	4.6	130	31	10.0	7.4	125	31	5.1	4.5	131
0.15 a.g. . .	31	7.2	3.8	277	31	13.5	3.1	329	31	9.3	6.6	159	31	7.3	5.5	128	31	14.8	13.3	115	31	12.1	10.9	126
0.3 a.m.s.l. . .	31	8.0	3.8	282	31	10.9	2.9	323	31	9.5	7.0	155	31	7.1	5.3	136	31	14.0	12.4	117	31	12.7	11.3	127
0.6 , , .	31	7.6	4.5	270	31	13.9	3.8	314	31	9.7	7.3	150	31	6.2	4.1	138	31	11.7	10.2	114	31	11.3	9.7	121
0.9 , , .	31	8.2	4.8	265	31	12.1	4.3	288	31	10.2	7.3	142	31	7.5	4.6	129	31	9.6	7.8	107	31	9.5	7.7	111
1.5 , , .	31	8.6	5.2	257	31	8.6	5.2	264	31	11.8	7.9	095	31	10.3	8.0	092	31	9.3	7.2	095	31	10.3	8.1	090
2.1 , , .	31	9.0	5.7	265	30	10.1	6.6	274	31	12.8	9.9	074	29	12.4	11.4	075	31	10.3	8.4	072	30	11.1	8.4	070
3.0 , , .	31	11.8	8.1	264	26	11.0	7.5	278	30	11.9	7.7	057	27	11.7	8.7	044	31	12.3	7.9	047	29	11.6	7.6	048
3.6 , , .	30	13.9	11.0	265	18	13.5	8.0	285	30	11.3	4.9	037	26	11.3	4.1	074	31	12.4	5.3	040	25	10.2	4.5	026
4.5 , , .	30	16.8	14.8	265	7	15.9	12.9	283	30	11.0	2.3	249	24	10.8	2.6	224	30	11.6	3.3	272	19	8.2	2.2	268
5.4 , , .	29	22.3	20.9	265	3	17.0	16.2	290	30	14.0	7.5	258	23	12.6	8.0	250	30	13.2	7.4	259	14	13.4	7.7	251
6.0 , , .	29	26.1	24.5	270	2	17.5	17.4	284	29	16.4	10.5	256	22	14.1	9.1	266	30	14.6	8.7	257	10	16.0	11.6	236
7.2 , , .	28	34.7	32.6	270					29	20.4	17.0	265	20	19.5	15.3	267	30	21.4	17.9	269				
9.0 , , .	25	58.6	55.7	270					27	25.8	20.0	243	19	23.2	17.6	245	23	30.1	21.6	248				
Station	MANGALORE								MINICOY															
Time in I.S.T.	0530				1730				2330				0530				1730				2330			
Ht.in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	4.2	3.3	066	31	10.8	9.8	299	31	5.1	4.4	336	31	3.3	2.6	346	31	5.1	4.7	347	31	4.8	3.9	344
0.15 a.g. . .	31	7.4	5.6	011	31	11.1	10.4	297	31	8.8	8.3	335	31	8.1	6.5	345	31	8.1	7.0	350	31	9.1	7.3	349
0.3 a.m.s.l. . .	31	7.0	5.2	357	31	12.3	10.9	298	31	9.3	8.9	333	31	7.5	5.7	350	31	8.7	7.4	354	31	9.0	6.9	351
0.6 , , .	31	7.1	4.7	002	31	11.2	9.3	303	31	9.3	8.7	334	31	7.3	5.3	002	31	8.3	7.1	002	31	8.6	6.0	013
0.9 , , .	31	8.6	4.6	014	31	8.5	6.0	312	31	8.2	6.8	325	31	7.7	4.2	040	31	7.9	6.2	027	31	8.2	5.0	036
1.5 , , .	30	10.9	2.7	023	31	7.6	4.2	046	31	7.9	1.5	348	31	11.2	9.1	079	30	11.0	8.1	075	31	11.4	9.5	082
2.1 , , .	30	9.6	5.1	107	30	11.0	9.1	080	29	10.1	6.9	085	28	12.3	10.6	082	28	12.3	9.9	078	31	14.3	10.9	077
3.0 , , .	30	9.7	7.5	092	29	12.9	9.8	092	26	14.2	11.7	091	23	12.7	9.2	083	26	11.9	6.2	058	27	13.3	10.5	074
3.6 , , .	23	8.9	2.8	143	29	9.5	5.1	096	23	12.6	7.9	093	13	8.0	3.1	093	26	10.8	3.4	064	22	11.0	3.4	065
4.5 , , .	11	9.4	7.7	243	28	10.1	3.5	250	18	10.7	5.0	250	6	10.5	2.0	001	23	10.2	2.7	309	13	6.7	2.4	024
5.4 , , .	2	12.5	12.3	234	26	12.5	8.1	264	13	12.6	10.2	256					21	9.4	1.9	325	1	5.0	5.0	275
6.0 , , .	1	29.0	29.0	230	25	16.0	10.5	263	10	15.2	14.2	262					21	10.0	3.5	328				
7.2 , , .					24	22.6	19.3	261	6	20.3	19.9	247					16	10.6	2.5	320				
9.0 , , .					18	27.1	23.6	258									12	9.5	3.7	220				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

March 1958 (Phalgun 10, 1879—Chaitra 10, 1880 Saka)

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

March 1958 (Phalgun 10, 1879—Chaitra 10, 1880 Saka)

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

March 1958 (Phalgun 10, 1879—Chaitra 10, 1880 Saka)

Station	RAIPUR					RAXAUL					SANTA CRUZ									
Time in I.S.T.	1730				2330	0530				1730	0530*				1130					
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	3.3	0.9	259	31	4.8	1.4	111	30	1.0	0.1	066	31	2.6	2.5	260	31	3.2	2.5	034
0.15 a.g. . .	31	6.3	2.2	275	31	12.0	3.0	085	30	8.8	2.4	306	31	10.5	9.9	274	31	11.0	8.0	017
0.3 a.m.s.l. . .									30	8.7	2.9	312	31	11.5	10.9	274	31	11.4	8.5	016
0.6 , , .	31	6.9	2.8	277	31	11.8	2.0	078	30	9.2	5.3	296	31	12.8	12.3	275	31	11.6	8.7	014
0.9 , , .	31	7.2	3.7	268	31	10.1	0.9	300	30	10.5	6.7	281	31	13.1	12.7	273	31	11.9	8.4	012
1.5 , , .	31	7.3	4.8	268	31	8.7	4.5	259	30	10.9	7.0	282	31	12.3	11.7	274	31	11.5	5.8	026
2.1 , , .	31	10.2	7.4	279	31	9.6	6.3	265	30	11.6	8.6	278	30	12.6	11.2	280	31	11.0	0.5	055
3.0 , , .	31	13.0	8.9	281	29	14.4	9.2	271	28	13.1	11.6	282	29	14.2	13.5	283	31	12.3	7.2	193
3.6 , , .	28	17.1	13.0	280	26	15.0	11.5	291	9	10.0	9.4	280	18	15.0	13.9	285	31	13.1	9.1	202
4.5 , , .	27	19.6	17.5	275	11	18.0	15.2	295	7	16.6	14.6	288	11	21.5	20.4	286	31	14.6	11.1	228
5.4 , , .	24	24.0	21.9	275	5	16.4	14.8	290	6	17.7	16.5	284	5	15.8	15.6	283	31	20.7	18.8	257
6.0 , , .	21	27.0	25.4	273	4	19.7	19.4	288	6	21.2	19.8	278	3	14.0	13.8	279	31	25.1	22.6	271
7.2 , , .	17	37.3	35.5	271					1	24.5	24.2	258					31	33.6	30.9	270
9.0 , , .	9	49.7	47.8	275					1	30.0	30.0	275					31	47.9	44.5	268
																12	48.2	45.7	284	

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

March 1958 (Phalgun 10, 1879—Chaitra 10, 1880)

Station	TIRUCHIRAPALLI								TRIVANDRUM															
	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1.3	1.2	018	31	6.8	5.8	096	31	5.4	4.5	095	31	2.7	1.6	005	31	3.9	2.4	293	31	6.4	4.9	260
0.15 a.g. . .	31	7.1	3.9	069	29	10.5	9.1	095	31	11.9	10.0	111	31	4.7	2.8	349	31	5.9	2.8	280	31	7.0	5.2	259
0.3 a.m.s.l. . .	31	7.3	3.9	090	29	10.9	9.9	094	31	12.5	10.2	112	31	5.0	3.0	354	31	5.9	2.4	277	31	7.3	4.8	263
0.6 „ . .	31	9.4	4.9	122	29	10.9	9.8	096	31	14.4	12.3	110	31	5.7	3.4	005	31	5.5	1.7	302	31	6.9	2.5	285
0.9 „ . .	31	9.8	6.0	116	29	10.4	9.4	093	31	12.7	10.2	102	31	6.5	4.0	023	30	5.7	3.1	011	31	7.1	1.8	010
1.5 „ . .	31	9.7	7.1	089	29	9.7	8.1	076	31	10.7	9.2	067	31	8.3	6.2	052	23	8.8	7.6	061	30	10.8	9.1	045
2.1 „ . .	29	11.0	9.5	079	29	11.2	9.4	055	31	12.3	10.4	060	31	11.2	9.2	064	20	15.3	13.7	076	30	14.2	12.9	058
3.0 „ . .	28	11.6	9.9	057	28	13.4	10.5	033	31	11.4	7.3	044	30	11.0	8.9	072	11	16.6	14.4	078	30	12.0	9.4	072
3.6 „ . .	26	10.2	7.7	093	28	12.4	7.8	044	16	8.8	2.8	057	28	10.0	6.6	077	8	11.5	11.3	087	30	10.8	7.3	080
4.5 „ . .	18	7.8	3.5	112	27	10.8	0.6	060	7	12.0	5.9	237	28	8.5	3.1	117	6	12.2	11.1	090	30	8.8	3.0	098
5.4 „ . .	8	9.9	2.7	100	22	11.8	3.1	300	2	11.5	11.3	267	28	8.9	1.9	213	4	11.8	7.1	094	29	8.4	0.2	045
6.0 „ . .	5	8.8	2.2	297	20	10.8	3.7	278	1	15.0	15.0	250	27	9.0	2.7	238	4	11.2	5.4	070	25	8.2	0.8	321
7.2 „ . .	2	10.5	10.5	262	16	12.9	8.0	285					25	9.5	4.6	264	3	13.0	8.7	072	24	8.9	2.8	284
9.0 „ . .					9	18.4	13.4	240					22	12.7	8.6	215	3	13.3	12.6	167	23	10.0	4.8	221
Station	TRIVANDRUM				UDAIPUR								VENGURLA											
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	2.7	1.4	335	31	0.6	0.5	045	31	2.3	0.8	228	31	1.7	1.1	295	31	1.0	0.8	005	31	6.8	6.1	275
0.15 a.g. . .	31	5.8	2.7	329	31	7.0	5.0	330	31	7.6	2.5	251	31	8.2	4.8	312	31	8.8	7.0	008	31	9.5	8.7	286
0.3 a.m.s.l. . .	31	6.0	2.7	320													31	11.3	9.1	359	31	10.3	8.9	293
0.6 „ . .	31	6.6	3.0	316													31	13.2	10.4	350	31	9.8	7.6	298
0.9 „ . .	30	6.6	3.0	001	31	9.5	5.9	343	31	8.3	3.1	260	31	9.8	6.0	322	30	14.3	9.9	343	30	8.2	5.4	307
1.5 „ . .	26	9.7	8.3	057	31	9.8	5.3	316	31	8.1	4.2	276	31	10.9	5.6	304	30	12.8	2.8	292	30	8.5	2.6	181
2.1 „ . .	24	16.3	15.9	063	31	9.0	5.3	269	31	8.2	5.5	269	31	8.5	4.4	266	30	11.1	6.1	173	29	9.6	2.5	143
3.0 „ . .	22	13.4	11.5	066	31	11.2	7.7	243	31	9.6	7.3	251	31	10.7	6.8	240	30	13.3	8.5	156	27	13.9	7.1	134
3.6 „ . .	15	9.1	5.5	071	30	13.8	9.9	246	31	11.6	9.0	254	30	12.6	8.6	243	21	11.8	5.9	199	27	13.3	6.0	166
4.5 „ . .	9	8.9	2.5	180	15	16.3	12.9	257	29	18.5	15.8	264	16	16.1	12.0	254	6	11.5	7.5	265	27	12.6	5.6	238
5.4 „ . .	4	7.3	3.4	153	2	31.0	30.7	257	28	21.1	18.9	265	5	19.6	18.9	259					27	13.6	9.9	273
6.0 „ . .	2	9.5	7.8	193					25	26.2	24.3	269									27	16.7	13.3	279
7.2 „ . .									18	36.0	34.6	267									17	25.9	22.3	278
9.0 „ . .									11	50.1	49.5	268									8	46.6	44.9	256

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

March 1958 (Phalgun 10, 1879—Chaitra 10, 1880 Saka)

Station	VENGURLA				VERAVAL								VISAKHAPATHAM												
	2330				0530*				1130				1730*				2330				0530				
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Surface . .	31	1.8	1.7	337	31	8.5	6.9	355	31	9.5	5.4	328	31	13.1	10.6	260	31	6.9	6.0	319	31	0.8	0.6	265	
0.15 a. g. . .	31	9.5	8.8	344	31	17.8	13.5	351	31	9.4	5.6	346	31	17.5	12.9	272	31	15.0	13.1	316	31	5.4	4.4	239	
0.3 a.m.s.l. . .	31	11.8	11.2	342	31	17.7	13.5	348	31	10.0	7.0	354	31	16.8	11.8	276	31	15.5	12.5	317	31	6.3	5.2	239	
0.6 „ . .	31	11.8	10.8	337	31	16.4	11.8	340	31	10.4	6.8	001	31	14.2	8.1	265	31	14.6	10.1	320	31	6.4	4.7	234	
0.9 „ . .	31	10.6	9.5	331	31	13.2	6.2	229	31	10.8	6.4	002	31	11.6	5.5	307	30	13.5	6.5	329	31	6.3	4.1	219	
1.5 „ . .	31	9.6	4.8	294	31	10.4	2.1	302	31	9.9	2.1	016	31	10.2	4.5	007	30	10.5	3.0	012	31	6.6	1.0	195	
2.1 „ . .	31	11.0	4.5	153	31	9.9	2.0	226	31	10.3	1.3	208	31	11.5	2.4	351	30	10.0	1.1	091	31	7.0	2.8	341	
3.0 „ . .	31	14.2	9.5	132	31	13.6	6.7	206	30	13.0	7.8	195	31	12.3	2.6	220	30	11.7	3.0	204	30	9.8	6.6	301	
3.6 „ . .	18	13.2	7.4	160	31	15.0	7.8	227	30	14.8	9.1	214	31	13.6	7.9	247	21	12.0	4.7	217	24	11.9	8.1	265	
4.5 „ . .	1	5.0	5.0	040	31	18.0	13.1	253	30	15.6	10.9	242	31	17.4	13.3	255	12	13.9	10.3	253	9	16.9	15.2	251	
5.4 „ . .						30	28.6	21.6	270	30	18.2	14.7	268	31	23.2	20.1	275	7	15.9	15.7	267	3	21.7	20.9	234
6.0 „ . .						30	29.2	27.0	271	30	22.8	20.6	271	31	27.4	26.8	275	4	26.7	26.6	270	2	30.5	29.0	227
7.2 „ . .						30	43.3	41.5	274	29	35.4	33.8	273	31	39.2	36.5	275								
9.0 „ . .						30	61.7	57.7	272	25	48.9	46.0	275	31	58.7	56.8	275								

Station	VISAKHAPATNAM							
	1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D
Surface . .	31	8.8	6.4	212	31	1.4	0.4	245
0.15 a.g. . .	31	9.6	6.7	187	31	5.5	4.4	225
0.3 a.m.s.l. . .	31	8.5	5.7	184	31	6.7	5.7	223
0.6 „ . .	31	7.9	5.2	184	31	7.0	5.2	220
0.9 „ . .	31	8.2	4.5	189	31	6.1	4.1	212
1.5 „ . .	31	8.3	2.2	223	31	5.8	1.9	203
2.1 „ . .	31	9.3	4.0	331	31	7.3	3.0	005
3.0 „ . .	30	12.7	9.3	337	28	10.0	6.1	322
3.6 „ . .	29	14.8	10.4	322	23	12.0	7.6	281
4.5 „ . .	25	15.1	11.2	289	20	16.5	13.9	262
5.4 „ . .	23	17.3	14.6	275	11	20.4	18.7	260
6.0 „ . .	20	21.7	18.9	267	4	22.3	22.3	272
7.2 „ . .	7	35.3	32.7	250				
9.0 „ . .	2	64.5	64.5	252				

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9.0 km above mean sea level

March, 1958 (Phalguna 10, 1879—Chaitra 10, 1880 Saka)

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9.0 km. above mean sea level.

March, 1958 (Phalgun 10, 1879—Chaitra 10, 1880 Saka)

Ht. in Km.	n	V	v	D	Ht. in Km.	n	V	v	D	Ht. in Km.	n	V	v	D
POONA														
1730 hrs.														
10.5	6	51.2	47.6	275	10.5	2	10.0	10.0	227	18.0	9	52.	46.4	265
12.0	2	60.0	56.5	274	12.0	2	8.0	7.9	259	21.0	4	27.7	14.8	300
					14.1	1	16.0	16.0	345	24.0	1	16.0	16.0	120
PORT BLAIR														
0530 hrs.*														
10.5	14	21.0	18.9	205	10.5	18	16.7	12.6	217					
12.0	9	24.8	20.4	195	12.0	15	19.1	14.5	232					
14.1	4	21.3	12.0	211	14.1	8	23.6	17.7	262					
16.2	2	20.0	17.7	261	16.2	7	19.3	14.0	233					
18.0	1	31.0	31.0	250	18.0	2	12.5	12.3	218					
					21.0	1	15.0	15.0	270					
10.5	7	15.6	14.2	191	24.0	1	32.0	32.0	256					
12.0	4	17.7	16.3	182										
14.1	3	17.0	12.7	184	10.5									
					12.0	1	31.0	31.0	245					
10.5	14	18.4	13.6	199	14.1	1	25.0	25.0	270					
12.0	11	23.8	14.6	200										
14.1	7	21.3	15.2	211	10.5	18	14.8	9.8	208					
16.2	3	26.3	23.3	232	21.0	16	17.3	12.7	225					
18.0	2	29.0	28.0	228	14.1	14	15.2	6.4	272					
21.0	1	18.0	18.0	250	16.2	7	16.9	8.6	199					
UDAIPUR														
SANTA CRUZ														
1730 hrs.														
10.5	26	57.5	54.2	266	10.5	5	70.0	66.4	272					
12.0	24	60.5	56.9	264										
14.1	18	55.4	51.8	270	10.5	26	68.2	65.3	273					
16.2	7	51.1	47.0	281	12.0	25	75.4	73.4	272					
18.0	2	58.0	54.7	274	14.1	16	72.3	70.2	273					
					16.2	5	53.0	52.4	274					
10.5	4	53.5	50.0	275	18.0	3	59.0	58.4	285					
12.0	2	42.0	39.6	270										
14.1	2	43.0	43.0	283	10.5	21	59.1	55.0	270					
16.2	2	33.0	31.5	270	12.0	15	68.5	64.9	279					
18.0	2	16.5	16.3	258	14.1	7	72.3	67.6	284					
21.0	1	79.0	79.0	280	16.2	3	84.0	82.0	283					
					1730 hrs.*									
10.5	21	61.5	52.9	268	10.5	28	68.5	64.9	275					
12.0	16	54.4	52.6	270	12.0	27	64.1	60.0	277					
14.1	10	54.0	52.6	275	14.1	18	63.6	60.6	272					
16.2	4	37.0	21.3	315	16.2	12	48.7	47.5	273					

RADIOSONDE DATA**March, 1958 (Phalgun 10, 1879—Chaitra, 10 880 Saka)**

During the month, observations of upper air temperature, pressure and humidity were made at 13 stations in India as given in the list below. For a detailed description of the instruments used, a reference may be made to the I. M. D. Scientific Notes Nos. 112 and 113 (Volume IX).

LIST OF RADIOSONDE STATIONS IN INDIA

Serial No.	Name of station	Type of instrument used	Date of starting	Hours of routine observations in GMT during the month	Remarks
1	Allahabad	Clock type .	1st October, 1944	. . . 00 and 12	
2	Amritsar .	Clock type .	21st June, 1957	. . . 00 and 12	
3	Bombay .	Clock type .	7th September, 1954	. . . 00 and 12	
4	Calcutta .	Clock type .	13th December, 1946	. . . 00 and 12	. Fan type used from 13th December, 1946 to 30th November, 1947.
5	Gauhati	Clock type .	22nd July, 1955	. . . 00 and 12	
6	Jodhpur .	Clock type .	17th April, 1946	. . . 00 and 12	
7	Madras .	Fan type .	29th June, 1946	. . . 00 and 12	
8	Nagpur .	Fan type .	1st October, 1946	. . . 00 and 12	
9	New Delhi .	Clock type .	3rd December, 1943	. . . 00 and 12	
10	Port Blair .	Fan type .	4th December, 1949.	. . . 00 and 12	
11	Trivandrum .	Fan type .	1st July, 1947	. . . 00 and 12	
12	Veraval .	Fan type .	3rd October, 1944	. . . 00 and 12	
13	Visakhapatnam .	Fan type .	8th December, 1946	. . . 00 and 12	

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 00 Hours G. M. T.

March, 1958 (Phalguna 10, 1879—Chaitra 10, 1880 Saka)

Standard Pressure Surface mbs.	ALLAHARAD Surf. Pr. (1000 mb.)							AMRITSAR (986 mb.)							BOMBAY (1009 mb.)						
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A						
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			
Surface	31	008	292.5	297	287	283.1	31	230	286.9	294	281	282.4	31	013	295.9	298	292	291.0			
1000	30	093	..	..	..	..	27	109	..	..	..	..	31	093	..	..	..	..
900	29	1009	291.8	301	288	273.5	27	1007	290.5	298	281	274.2	31	1015	295.6	300	289	277.9			
850	29	1501	291.4	297	284	270.4	27	1493	287.8	294	280	269.7	31	1509	292.8	297	286	274.3			
800	29	2016	287.5	293	281	268.6	27	2000	284.3	290	276	268.1	31	2028	289.6	294	283	271.9			
700	29	3126	278.8	284	274	261.7	27	3100	275.6	281	266	260.9	31	3151	281.5	287	263	267.1			
600	29	4365	269.7	273	264	..	27	4326	266.5	272	259	..	31	4410	273.9	278	270	257.0			
500	27	5783	260.7	266	253	..	26	5723	256.1	262	249	..	31	5854	265.9	269	262	..			
400	26	7449	249.0	258	244	..	23	7367	245.0	256	237	..	31	7562	255.3	263	249	..			
300	25	9490	235.1	246	227	..	19	9371	229.8	237	222	..	29	9667	242.3	247	235	..			
250	23	10728	228.0	235	215	..	18	10593	221.6	229	213	..	26	10953	234.3	241	227	..			
200	22	12209	221.9	230	215	..	15	12013	214.6	220	205	..	25	12450	224.1	233	214	..			
175	21	13069	217.9	226	210	..	12	12842	214.0	220	207	..	24	13321	218.8	228	214	..			
150	18	14050	213.8	223	207	..	10	13786	215.9	220	212	..	22	14306	213.4	223	209	..			
125	16	15194	209.2	220	203	..	8	14977	213.3	217	210	..	16	15426	207.2	215	201	..			
100	13	16564	205.8	216	197	..	5	16381	213.8	217	206	..	14	16851	203.5	213	192	..			
80	8	17948	203.6	216	196	..	..	..	..	..	..	..	..	..	..	..	..	..
	CALCUTTA (1010 mb.)							GAUHATI (1006 mb.)							JODHPUR (986 mb.)						
Surface	31	06	294.0	229	287	291.7	31	49	290.2	295	286	288.0	31	218	294.1	299	287	277.3			
1000	31	094	..	..	..	..	31	100	..	..	..	..	31	099	..	..	..	..
900	31	1008	293.0	300	283	279.7	31	1006	291.8	298	285	280.8	31	1013	295.3	300	287	270.8			
850	31	1497	289.9	297	281	276.4	31	1494	288.9	294	283	277.7	31	1505	291.5	296	282	268.7			
800	31	2009	286.4	292	279	273.5	31	2005	285.3	291	278	275.0	31	2021	287.5	292	280	267.4			
700	31	3118	278.9	285	275	269.2	31	3105	277.5	283	274	267.8	31	3131	278.7	283	272	261.0			
600	31	4362	270.7	275	265	258.6	31	4342	269.5	275	265	..	31	4371	269.9	276	261	239.8			
500	31	5789	262.5	267	258	..	31	5760	260.9	268	255	..	31	5789	260.8	268	255	..			
400	31	7474	252.3	259	246	..	31	7430	250.0	259	243	..	31	7457	248.6	257	243	..			
300	28	9545	238.7	246	233	..	23	9519	238.3	246	230	..	30	9489	233.8	243	222	..			
250	26	10807	231.5	238	226	..	19	10760	232.4	239	225	..	27	10717	227.2	238	217	..			
200	25	12296	222.5	229	214	.	14	12262	224.4	230	218	..	24	12169	220.3	228	212	..			
175	17	13149	217.1	223	210	..	6	13107	217.5	225	212	..	21	13030	217.0	223	208	..			
150	15	14103	210.9	218	203	..	..	..	..	..	..	..	21	13997	213.2	219	207	..			
125	7	15169	206.3	211	199	..	..	..	..	..	..	..	17	15126	207.4	215	202	..			
100	6	16492	201.3	209	192	..	..	..	..	..	..	..	13	16478	203.0	211	198	..			
80	..	..	..	..	..	..	..	..	..	..	..	..	6	17794	200.7	208	196	..			

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 00 Hours G. M. T.

March, 1958 (Phalgun 10, 1879—Chaitra 10, 1880 Saka)

Standard Pressure Surface mbs.	MADRAS Surf Pr.(1009 mb.)						NAGPUR (976 mb.)						NEW DELHI (987 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	15	298.6	300	296	295.7	30	311	294.3	300	289	282.6	31	210	289.5	295	281	283.6
1000	31	094	..	..	..	..	30	097	..	..	..	..	31	101	..	..	..	..
900	31	1016	295.5	300	291	281.9	30	1016	296.8	301	292	279.5	31	1008	293.7	300	285	276.4
850	31	1512	293.8	299	290	276.2	30	1512	293.6	299	289	275.6	31	1499	290.6	297	283	272.1
800	31	2034	290.5	297	288	272.7	30	2032	289.5	293	285	274.1	31	2014	287.0	292	280	270.2
700	30	3161	283.2	287	280	264.7	30	3150	280.5	284	276	268.9	31	3122	278.5	282	272	263.0
600	30	4425	275.9	281	273	260.7	30	4399	272.0	276	267	261.4	31	4360	269.1	273	265	..
500	29	5879	267.7	273	263	..	30	5831	263.6	269	258	..	31	5774	259.2	263	255	..
400	29	1601	257.5	265	251	..	30	7523	253.3	264	247	..	31	7431	247.2	251	242	..
300	28	9710	243.4	249	236	..	29	9608	240.3	247	233	..	30	9454	232.1	240	227	..
250	24	10988	234.6	240	226	..	26	10871	231.5	238	217	..	28	10671	224.6	232	217	..
200	21	12488	223.7	230	214	..	24	12341	221.9	231	207	..	28	12117	219.4	227	210	..
175	13	13297	215.4	222	206	..	15	13150	215.3	224	205	..	27	12974	217.3	225	209	..
150	10	14298	210.7	215	203	..	13	14143	211.2	221	203	..	26	13958	214.7	221	209	..
125	7	15430	206.1	211	202	..	9	15258	207.3	213	203	..	25	15099	210.4	217	205	..
100	..	..	..	..	..	..	8	16606	203.7	213	197	..	25	16460	206.2	213	199	..
80	..	..	..	..	..	..	..	..	..	..	..	..	21	17807	205.5	213	199	..
	PORT BLAIR (1002 mb.)						TRIVANDRUM (1003 mb.)						VERaval (1011 mb.)					
Surface	31	079	296.9	300	293	295.6	28	064	299.3	301	298	295.7	31	008	295.3	299	291	289.1
1000	31	097	..	..	..	..	28	087	..	..	..	..	31	100	..	..	..	..
900	31	1021	295.6	299	292	287.8	28	1011	294.6	297	292	287.9	31	1020	296.0	301	290	276.6
850	31	1517	292.8	299	287	284.0	28	1505	291.6	297	289	283.8	31	1515	292.9	297	288	273.0
800	31	2038	290.4	293	285	280.5	28	2024	289.2	293	286	280.0	31	2032	289.4	293	283	271.3
700	31	3166	284.2	290	277	274.2	28	3147	283.5	287	279	270.7	31	3150	281.6	286	275	266.8
600	31	4438	276.8	283	269	269.2	28	4413	276.4	281	273	264.3	31	4403	273.4	279	268	256.9
500	30	5897	268.8	274	265	..	28	5867	268.0	271	265	..	30	5844	264.7	270	260	..
400	29	7622	258.2	265	251	..	25	7585	257.4	261	254	..	30	7542	254.0	260	249	..
300	18	9748	244.3	253	236	..	22	9693	241.8	247	233	..	30	9636	242.4	249	237	..
250	14	11021	234.6	229	231	..	19	10958	232.0	238	227	..	30	10913	235.1	242	231	..
200	8	12486	222.7	226	220	..	16	12452	222.0	231	213	..	29	12412	225.1	233	217	..
175	7	13349	217.1	221	213	..	14	13307	215.7	220	207	..	26	13286	219.8	226	210	..
150	6	14292	210.5	217	204	..	10	14263	209.9	217	195	..	25	14274	214.5	221	203	..
125	..	..	..	..	..	..	7	15348	204.3	211	192	..	23	15409	208.7	218	192	..
100	..	..	..	..	..	..	6	16722	201.3	217	190	..	18	16791	205.2	211	195	..
80	..	..	..	..	..	..	..	..	..	..	..	..	15	18154	206.1	215	195	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACE

(A) From Ascents at 00 Hours G. M. T.

March, 1958 (Phalgun 10, 1879—Chaitra 10, 1880 Saka)

Standard Pressure Surface mbs.	VISAKHAPATNAM Surf. Pr. (1005 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	31	048	298.7	301	296	295.0
1000	31	096	..	..	..	..
900	31	1023	296.4	303	292	282.5
850	31	1520	293.9	299	289	278.3
800	31	2042	290.4	293	285	276.7
700	31	3167	282.2	286	279	271.4
600	31	4425	274.6	279	270	263.3
500	31	5874	266.7	271	261	..
400	31	7588	256.9	263	251	..
300	28	9703	243.7	248	236	..
250	24	10983	234.5	244	229	..
200	24	12482	223.0	235	218	..
175	20	13330	217.3	227	211	..
150	17	14312	210.1	220	203	..
125	13	15447	205.6	215	195	..
100	11	16819	200.3	210	192	..
80	6	18092	198.2	209	188	

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 12 Hours G. M. T.

March, 1958 (Phalgun 10, 1879—Chaitra 10, 1880 Saka)

Standard Pressure Surface mbs.	ALLAHABAD Surf. Pr. (998 mb.)							AMRITSAR (985 mb.)							BOMBAY (1008 mb.)						
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A						
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			
Surface	31	98	304.3	310	294	282.3	31	230	299.6	306	285	283.0	31	13	303.5	308	300	292.1			
1000	31	80	..	..	..	..	30	95	..	..	..	..	30	84	..	..	..	..
900	30	1015	298.9	307	292	276.0	29	1018	295.3	302	284	275.9	30	1014	297.6	303	291	279.8			
850	30	1513	294.4	303	286	273.0	29	1511	291.5	299	283	272.5	30	1512	294.7	302	287	275.8			
800	30	2033	290.0	298	283	270.8	29	2026	287.4	293	278	267.6	30	2036	291.1	295	283	272.6			
700	30	3152	281.0	288	276	264.4	29	3134	278.8	285	268	258.9	30	3160	282.9	288	278	264.4			
600	30	4403	272.4	278	265	250.0	29	4374	270.0	277	261	241.3	30	4420	274.3	279	269	254.3			
500	29	5834	162.9	267	257	..	29	5791	259.5	266	253	..	30	5862	265.6	271	259	..			
400	28	7516	250.8	255	244	..	28	7453	247.4	254	239	..	30	7570	255.6	261	251	..			
300	26	9571	237.0	245	230	..	27	9483	232.3	241	222	..	24	9665	242.6	249	236	..			
250	26	10820	230.5	242	223	..	25	10713	224.2	233	216	..	22	10939	234.5	242	228	..			
200	24	12301	223.8	233	216	..	24	12157	218.7	225	211	..	18	12450	224.5	231	217	..			
175	22	13165	220.0	227	212	..	20	13049	218.3	225	210	..	15	13325	218.7	226	211	..			
150	19	14160	215.8	222	210	..	16	14031	218.4	223	213	..	12	14311	212.7	221	205	..			
125	16	15277	210.4	218	205	..	10	15189	214.8	221	210	..	8	15456	207.0	219	197	..			
100	9	16713	208.7	217	204	..	..	..	..	..	..	..	6	16817	201.0	208	191	..
80	5	18026	204.0	206	202	..	..	..	..	..	..	..		

	CALCUTTA (1008 mb.)							GAUHATI (1003 mb.)							JODHPUR (985 mb.)						
Surface	31	6	305.7	309	299	288.8	31	49	301.5	304	295	293.1	31	218	396.3	310	299	279.3			
1000	31	75	..	..	..	..	31	72	..	..	..	..	31	79	..	..	..	..
900	31	1015	299.8	309	294	278.5	31	1000	296.6	303	291	285.6	31	1018	299.3	307	291	273.3			
850	31	1514	295.9	304	289	274.7	31	1495	292.6	299	286	282.0	31	1516	294.6	303	287	270.5			
800	31	2037	291.9	299	285	272.4	31	2013	288.4	295	282	279.5	31	2037	290.2	298	283	269.5			
700	31	3163	283.1	290	277	262.3	31	3127	279.5	288	274	272.2	31	3156	280.9	288	273	263.5			
600	31	4422	274.5	280	268	254.2	31	4372	271.8	279	267	267.3	30	4404	270.9	277	265	256.2			
500	31	5870	266.2	273	260	..	31	5802	262.8	269	255	..	30	5825	261.0	266	255	..			
400	31	7577	255.3	268	250	..	31	7484	250.9	258	242	..	29	7498	249.6	256	243	..			
300	31	9676	242.2	255	233	..	22	9525	236.9	243	232	..	27	9532	235.1	244	229	..			
250	30	10953	234.0	247	224	..	17	10788	231.4	238	223	..	25	10777	229.0	238	223	..			
200	30	12456	224.9	239	214	..	10	12265	222.8	230	214	..	23	12272	223.1	232	215	..			
175	23	13294	219.2	230	209	..							22	13145	219.2	226	210	..			
150	20	14264	213.3	224	205	..							22	14121	215.1	219	207	..			
125	16	15397	208.5	217	197	..							21	15255	210.8	218	203	..			
100	9	16838	205.1	209	202	..							19	16641	206.4	212	199	..			
80													18	17969	203.6	209	195	..			

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 12 Hours G. M. T.

March, 1958 (Phalgun 10, 1879—Chaitra 10, 1880 Saka)

Standard Pressure Surface mbs.	MADRAS Surf. Pr. (1008 mb.)						NAGPUR (973 mb.)						NEW DELHI (986 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point
Surface	31	15	302.8	305	301	295.9	30	311	306.5	310	302	281.4	31	210	303.1	308	288	283.2
1000	31	85	..	..	..	..	30	68	..	..	..	..	31	86	..	..	..	..
900	31	1016	297.7	303	291	282.5	30	1011	301.1	306	294	278.5	31	1016	297.0	303	285	273.4
850	31	1514	294.9	299	291	276.3	30	1514	296.7	301	289	276.2	31	1510	292.6	299	284	270.1
800	31	2037	291.6	295	287	274.4	30	2039	292.2	296	283	274.7	31	2027	288.2	294	279	267.9
700	31	3167	284.3	290	279	269.6	30	3166	282.3	286	275	269.9	31	3139	279.1	283	273	258.3
600	31	4436	277.0	285	274	262.3	30	4422	273.3	278	265	253.1	31	4380	270.3	273	264	243.7
500	31	5898	269.5	277	263	..	30	5861	264.5	270	254	..	31	5798	260.2	263	255	..
400	31	7626	258.7	263	252	..	30	7557	253.7	260	244	..	31	7462	248.0	253	244	..
300	22	9741	243.8	249	240	..	30	9646	241.0	246	233	..	29	9492	232.9	237	228	..
250	20	11026	235.3	240	230	..	25	10927	233.3	240	227	..	27	10715	225.2	232	220	..
200	17	12516	224.1	230	217	..	23	12434	224.6	229	219	..	26	12166	220.5	229	212	..
175	11	13337	215.7	223	209	..	16	13305	218.4	223	211	..	26	13025	218.2	224	211	..
150	11	14298	209.2	217	204	..	13	14278	213.2	218	201	..	25	14013	215.7	223	208	..
125	8	15401	204.6	212	201	..	6	15424	206.7	210	201	..	24	15160	211.7	220	206	..
100	5	16786	199.4	207	193	..	6	16784	202.2	208	198	..	21	16537	207.7	215	201	..
80													20	17898	207.7	216	200	..
	PORT BLAIR (1001 mb.)						TRIVANDRUM (1001 mb.)						VERAVAL (1010 mb.)					
Surface	31	79	301.5	303	299	296.2	29	64	303.4	305	299	296.0	31	8	301.1	303	299	295.9
1000	31	88	..	..	..	..	29	77	..	..	..	..	31	95	..	..	..	..
900	31	1016	295.3	299	289	290.7	29	1009	296.8	300	294	290.0	31	1023	297.2	303	291	278.9
850	31	1511	292.8	296	285	285.8	29	1506	293.8	296	291	287.8	31	1519	293.5	301	288	276.3
800	31	2032	289.8	294	283	282.1	29	2028	290.8	294	287	282.4	31	2038	289.3	293	283	274.2
700	31	3160	283.9	291	279	275.4	29	3159	285.1	289	281	274.1	31	3157	281.9	287	277	268.7
600	31	4430	276.8	284	270	269.4	29	4434	278.6	283	275	266.3	31	4412	273.9	280	269	260.7
500	31	5887	268.2	275	262	..	28	5901	270.5	276	266	..	31	5855	265.8	271	258	..
400	30	7609	257.9	267	250	..	24	7633	259.3	264	253	..	31	7556	254.9	261	249	..
300	22	9715	243.5	252	237	..	22	9762	244.1	253	236	..	31	9654	242.3	251	234	..
250	15	10981	234.0	243	228	..	18	11046	234.2	243	226	..	30	10933	234.9	242	226	..
200	13	12492	224.3	232	217	..	16	12512	223.4	230	216	..	30	12435	225.6	230	218	..
175	11	13331	217.6	222	210	..	15	13394	219.3	225	212	..	28	13314	219.4	225	210	..
150	9	14330	213.1	217	205	..	12	14368	212.2	217	208	..	26	14301	214.0	222	206	..
125	5	15374	204.8	213	191	..	6	15470	206.2	213	201	..	24	15433	208.7	217	202	..
100													20	16786	204.2	214	198	..
80													15	18083	202.9	215	197	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 12 Hours G. M. T.

March, 1958 (Phalgun 10, 1879—Chaitra 10, 1880 Saka)

Standard Pressure Surface mbs.	VISAKHAPATNAM Surf. Pr.(1004 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	31	48	302.6	304	301	296.5
1000	31	85	..	..	..	..
900	31	1018	297.8	302	294	281.4
850	31	1518	294.9	299	290	278.5
800	31	2041	291.4	295	287	277.5
700	31	3169	283.4	291	280	272.8
600	31	4435	275.6	282	270	263.6
500	31	5889	267.3	272	261	..
400	31	7608	257.8	263	251	..
300	29	9728	244.1	251	237	..
250	27	11017	234.6	241	226	..
200	23	12524	223.6	232	216	..
175	16	13422	218.1	226	211	..
150	14	14409	212.0	220	203	..
125	7	15595	209.4	213	205	..
100						
80						

Note.—Number of observations refer to those of dynamic height.

Means are not worked out for temperature and dew point for the 1000 mb. surface and for dew point for standard pressure surfaces with temperature less than 273°A.

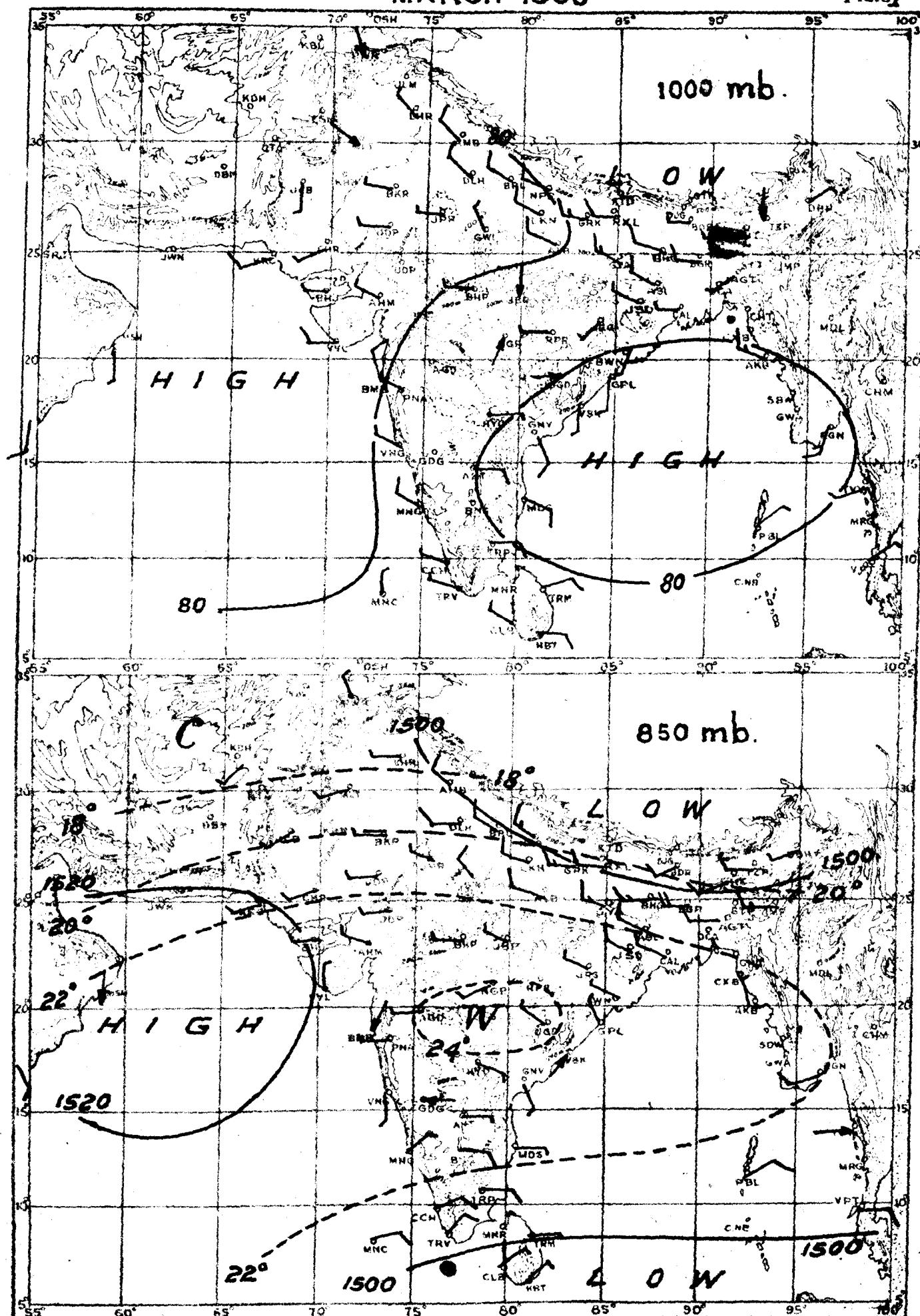
Means are not worked out for less than five observations at standard pressure surfaces.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D.

MARCH 1958

Plate I



RESULTANT WIND

— 5 Knots, — 10 Knots, — 50 Knots.

----- Isotherms in degrees centigrade

— Contours in geopotential metres.

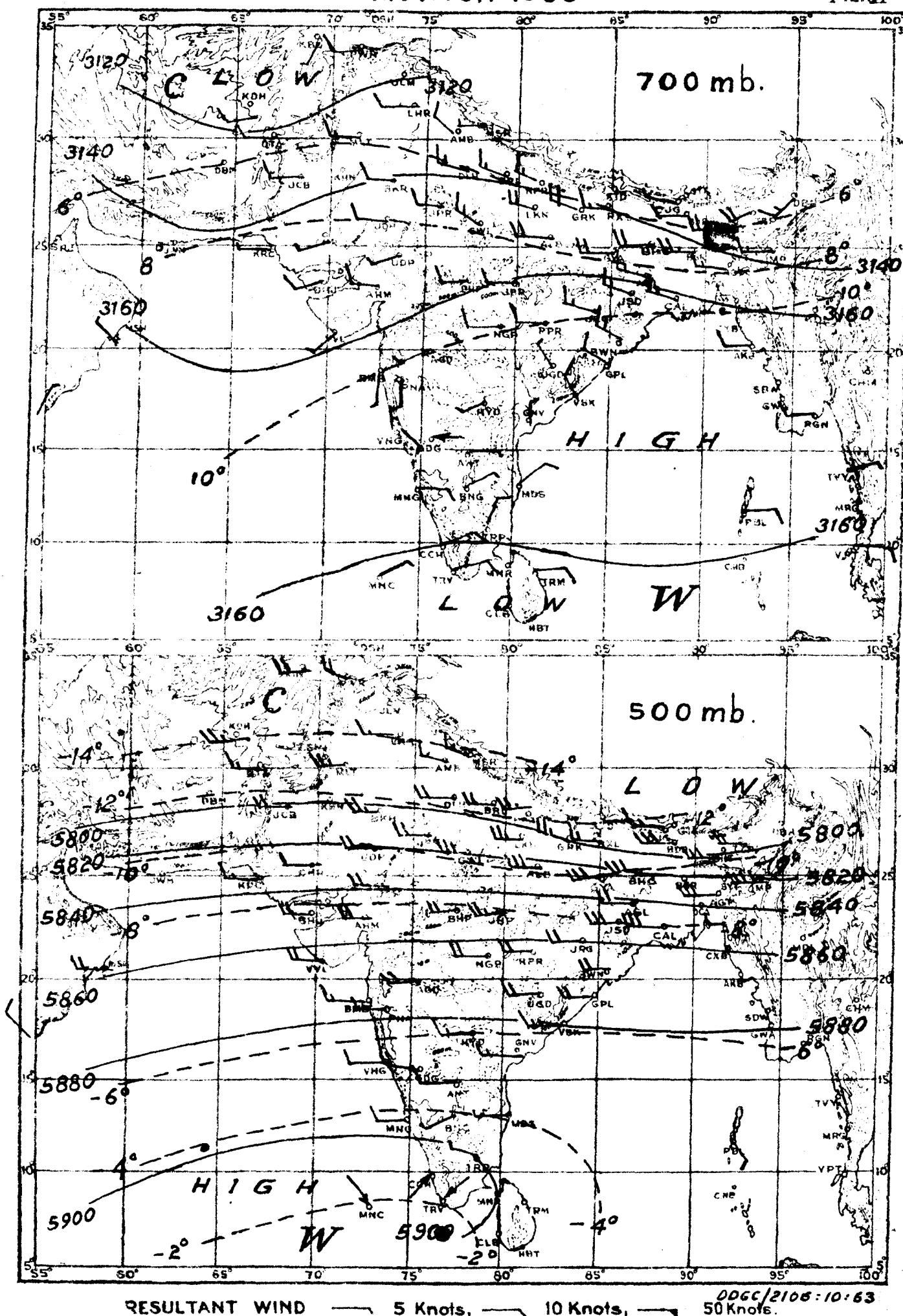
G.P.E.B. DOONA, 1963

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D.

MARCH 1958

Plat. II



RESULTANT WIND — 5 Knots, — 10 Knots, — 50 Knots.

----- Isotherms in degrees centigrade ----- Contours in geopotential metres.

G.P.R.P. DOONA, 1958

P.W.P

DDGC/2106:10:63

INDIA WEATHER REVIEW, 1958

Monthly Weather Report

April

Published by authority of the Government of India



Chief features—

- (1) Western disturbances of the month were generally feeble.
- (2) There was good thunderstorm activity in Assam between 9th and 30th April and in the rest of northeast India, in the central parts of the country and in the Peninsula during the last week of the month; and
- (3) Day temperatures above normal prevailed over northwest India during most of the month and in West Bengal, Bihar and Uttar Pradesh during the second and third weeks.

Five western disturbances affected the country during the month of April. The first western disturbance was located over Baluchistan on 30th March and over east Afghanistan on 1st April. It moved away across the Punjab hills by 3rd. Under its influence fairly widespread thundershowers with scattered falls of snow were reported from Jammu and Kashmir on 2nd and 3rd. Fairly widespread thundershowers also occurred in Himachal Pradesh on 3rd. The second western disturbance was located over north Baluchistan and adjoining Afghanistan on 6th. It followed an eastnortheast course and moved away across Himachal Pradesh by 9th. Local thundershowers occurred in Jammu and Kashmir on 8th and 9th with scattered snowfall on 9th. The third western disturbance lay over Afghanistan on 15th and moved away across the extreme north of our country on 17th. Kashmir experienced scattered light rain or snow on 15th and scattered thundershowers on 17th. The fourth western disturbance lay over Afghanistan on 19th and moved away across Jammu and Kashmir on 20th, after inducing two shallow low pressure areas, one over extreme north Rajasthan and the adjoining Punjabs and the other over west Uttar Pradesh. Both these lows moved away by 22nd, the first across the Punjab-Kumaon hills and the second across the Nepal Himalayas. In association with these disturbances, local or scattered thundershowers occurred in Jammu and Kashmir on 20th and 21st and in west Uttar Pradesh, the Punjab (I) and Himachal Pradesh on 21st. The fifth western disturbance of the month was located over Afghanistan on 24th evening and moved away across the extreme north of our country by 26th, after inducing an upper air trough over the Punjab (I) the same day. The trough persisted there for about 3 days and became unimportant by 30th. Under the influence of this western disturbance and the induced trough, local or scattered thundershowers were reported from Jammu and Kashmir between 25th and 27th and on 30th, from west Uttar Pradesh on 28th and 29th, from the Punjab (I) on 29th and from Himachal Pradesh on 29th and 30th.

A low pressure area developed over northeast Madhya Pradesh and neighbourhood on 2nd evening. Taking an eastnortheasterly course, it moved away across Assam by 5th. Under its influence, incursion of moist air took place over parts of Peninsula, over east Madhya Pradesh and Assam. Scattered thundershowers occurred in Maharashtra, east Madhya Pradesh and in and near Chota Nagpur on 3rd and local or scattered thundershowers in Assam between 3rd and 5th. A few hailstorms were reported from Assam between 3rd and 5th and from Bihar State and neighbourhood on 3rd.

The flow of moist air into the Peninsula, Madhya Pradesh and into parts of northeast India continued practically throughout the rest of the month, being strengthened by the development of two troughs, one after the other, over the central parts of the country, during the last week of the month. Fairly widespread or local thundershowers occurred in Assam on most days during the last three

"Copyright © 1959 by Manager of Publications, Govt. of India, Delhi-8."

weeks of the month. There was also good thunderstorm activity over the rest of northeast India, over the central parts of the country and over Peninsula between 20th and 30th. Cherrapunji reported 11 cms. of rain on 10th, 17 cms. on 12th, 8 cms. on 22nd and 9 cms. on 29th. Mercara reported 7 cms. on 13th, Cooch-Behar 7 cms. on 27th and Tezpur 8 cms. and Aurangabad 6 cms. on 29th. A few thunderstorms in northeast India, particularly in Assam, were accompanied by hail between 9th and 13th and again between 19th and 23rd. A number of hailstorms were reported from Bihar State and neighbourhood on 27th and 30th. Isolated hailstorms also occurred in Saurashtra on 14th and 15th in Maharashtra on 28th. According to press reports, several electric posts were uprooted by a thunderstorm at Berhampore on 23rd evening and by another thunderstorm at Gorakhpur on 26th evening. A motor launch with 13 persons aboard belonging to Northeastern Railway was caught in a thundersquall and capsized in the river near Patna on 26th. Roofs of several hutments were reported to have been blown off by a thunderstorm at Nasik on 28th and by another thunderstorm at Jabalpore on 29th.

Day temperatures were generally above normal in northwest India practically throughout the period 5th—28th April, being appreciably so between 24th and 27th. According to press reports, a few deaths due to heat stroke occurred in Rajasthan and Gujarat during this period. The day temperatures were also above normal in Assam, West Bengal, Bihar and Uttar Pradesh on most days between 5th and 18th of April, being markedly above normal in upper Assam on 7th and 8th and appreciably above normal in Uttar Pradesh and Bihar between 8th and 17th.

The total rainfall during the month was in large excess in Rayalaseema and Interior Mysore in moderate excess in Bihar, Saurashtra and Kutch, Maharashtra and Telangana, in slight excess in Sub-Himalayan West Bengal and coastal Andhra Pradesh and normal in Chota Nagpur and the Madras State. It was in slight defect in Assam, Gangetic West Bengal and Kerala, in large defect in Rajasthan, Gujarat, coastal Mysore and the Arabian Sea Islands and in moderate defect over the rest of the country outside the Bay Islands and the Konkan where there was no rain.

The Mean maximum temperature was normal over the country outside the Bay Islands, Bihar State, Uttar Pradesh, northwest India, Madhya Pradesh, and the Arabian Sea Islands where it was above normal. The mean minimum temperature was above normal over the country outside the Konkan, the States of Andhra Pradesh, Madras, Mysore and Kerala and the Arabian Sea Islands where it was normal.

Mean relative humidity was above normal in Saurashtra and Kutch, Vidarbha and Rayalaseema and normal over the rest of the country outside the Bay Islands and Jammu and Kashmir where it was below normal.

The mean cloud amount was above normal in Chota Nagpur, east Uttar Pradesh, east Rajasthan, Madhya Pradesh, Saurashtra and Kutch, Maharashtra, Vidarbha, Telangana, the Madras State and Interior Mysore and normal over the rest of the country outside the Bay Islands, the Punjab (I) and west Rajasthan where it was below normal. Normal data for Himachal Pradesh are absent.

Table I contains the divisional and sub-divisional means of rainfall, temperatures, humidity and cloud amount for the 14 chief political divisions and the 30 sub-divisions. The stations whose observations are used for preparing these means are given in the subsequent tables.

The highest maximum temperature given for any station in the accompanying tables is that recorded within the 24 hours ending at 0830 hrs. IST of the date noted in the succeeding column; similarly the heaviest fall in 24 hours for any station denotes the amount recorded during the 24 hours ending at 0830 hrs. IST of the date given in the succeeding column.

Poona 5,

The 18th August, 1960.

C. Ramaswamy,

for Director General of Observatories.

Errata to Monthly Weather Report for April 1958
(Chaitra 11 - Vaisakha 10, 1880 Saka)

.....

Page No.	Station	Hour	Col.	For	Read
<u>Text Portion</u>					
165	3rd para, 3rd word	-		not given	persisted
165	4th para, 6th line - after the word 'Baluchistan' -----			and adjoining	and adjoining
165	4th para, 7th line - after the word 'across' -----			across HImachal	across Himachal
165	4th para, 7th line - after the word '9th' etc. -----			Loca	Local
<u>Table I - Division</u>					
167	8. Rajasthan	5		22.4	24.4
<u>Table I - Sub-Division</u>					
167	4. Gangetic West Bengal	4		33.7	37.7
<u>Table II</u>					
168	Dibrugarh	12		+148.4	-148.4
168	Rangia	4		36.6	36.2
169	Varanasi (Banaras) (Babatpur Aerodrome)	9		6	19
170	Hardoi	28		16	6
170	Gurez	16		7.7	-7.7
170	Jammu	12		+25.2	-25.2
170	Jammu	16		+1.6	-1.6
170	Sri Ganganagar	17		3.1	3.6
171	Phalodi	24		1	0
171	Jaipur	18		7.3	7.0
172	Dahanu	2		32.9	32.0
172	Deolali	28		0	4
173	Belgaum (Sambre Aerodrome)	24		1	0
174	Hassan	7		+ 0.7	+ 0.8
174	Fort Cochin	12		+32.0	-32.0
174	Trivandrum (Aerodrome)	7		32.2	23.2
174	Koksar	13		47.	47.7
174	Lhasa	4		23.7	23.3
174	Panchet Hills	8		21.9	21.4
<u>Table III</u>					
178	Gauhati	1730	7	8.6	28.6
178	Cooch-Behar (C.W.O.)	1730	4	1065.6	1005.6
179	Bhubaneshwar	0530	27	Blank	0
180	Keonjhar	0830	4	1006.1	1009.1
180	Keonjhar	1730	4	1001.3	1004.3
180	Foot note	-	-	(9) Mean of 24 days	(g) Mean of 24 days
181	Gaya	1130	24	7	6
181	Gorakhpur (P.B.O.)	1130	7	25.1	35.1
181	Varanasi (Banaras)	0830	8	0.8	20.8
181	Allahabad (Bamrauli)	0230	13	1.	1.0
182	Lucknow (Amausi Aerodrome)	0530	8	13.0	17.0
183	Ambala (Aerodrome)	1130	7	24.3	34.3
183	Ambala (Aerodrome)	1730	19	0	1
183	Udhiana	0830	23	1	0
183	Srinagar	2330	5	743.9	843.9
184	Jiwar	0830	18	11	21
184	Jaipur (Sanganer Aerodrome)	0530	11	26	36
184	Jaipur (Sanganer Aerodrome)	0830	26	3	7
184	Erinpura (Jawai Dam)	1730	4	1004.2	1004.5

THE COLOMBO PLAN
COUNCIL FOR TECHNICAL CO-OPERATION IN SOUTH AND SOUTH-EAST ASIA

- 2 -

Page No.	Station	Hour	Col.	For	Read
185	<u>Table III (contd.)</u>				
185	Indore	0830	18	29	22
188	Parbhani	0830	4	1010.1	1010.3
188	Parbhani	0830	5	963.6	963.8
188	Parbhani	1730	4	1003.2	1003.4
188	Parbhani	1730	5	958.2	958.4
189	Akola	1730	10	11.3	12.3
189	Nagpur	0830	14	+1.1	+1.6
190	Nizamabad	1730	7	37.4	37.9
190	Mahabubnagar	0830	13	3.2	3.3
190	Pamban	1730	16	1	0
190	Pamban	1730	17	2	1
190	Nagapattinam	1730	4	1007.8	1007.4
191	Madras	2330	10	32.6	32.0
192	Bangalore (Central Observatory)	1730	20	2	1
192	Bangalore (Aerodrome)	0830	5	913.3	913.5
192	Kozhikode	2330	10	30.0	30.3
192	Punelur	1730	11	2	72
193	Mussooree	0830	14	-9.6	-0.6
193	India Kodaikanal	0830	2	1730	0830
194	Ootacamund	0830	6	+1.4	+1.0

Page No.	Station	Time in I.S.T.	Ht.in km.	Entry under column	Existing entry	Correct entry
198			3.0	Ht.in km.	0.0	3.0
198	Ambala	1730	3.6	n	21	28
199	Ambala	2330	3.0	D	219	299
199	Amritsar	1730*	3.6	v	0.9	10.4
199	Anantapur	1730	7.2	v	16.5	6.5
199	Asansol	1730	4.5	V	29.6	22.6
200	Bairagarh	0530	0.6	V	15.0	15.2
200	Bamrauli	1130	3.6	v	26.6	20.6
201	Heading Ht.in km. (Upper portion)		0.3	Ht.in km a.s.l.		a.m.s.l.
201	Heading Ht.in km. (Lower portion)		0.3	Ht.in km a.s.l.		a.m.s.l.
202	Heading Ht.in km. (Upper portion)		0.3	Ht.in km a.s.l.		a.m.s.l.
202	Bikaner	0530	3.0	n V v D values shifted up slightly		
202	Bikaner	0530	6.0	n V v D values shifted up slightly		
202	Heading Ht.in km. (Lower portion)		0.3	Ht.in km a.s.l.		a.m.s.l.
203	Dum Dum	0530	..	..	0530	0530*
203	Gadag	1730	6.0	D	28	028
205	Jagdalpur	0530	6.0	v	13.7	13.6
206	Jagdalpur	1730	0.15	v	5.0	5.8
206	Jamshedpur	0530	1.5	n	3	30
206	Jamshedpur	1130	Time of ascent		1730	1130
206	Jharsuguda	0530	3.0	D	3 2	302

Page No.	Station	Time in I.S.T.	Ht.in km.	Entry under column	Existing entry	Correct entry
206	Jharsuguda	1730	3.0	D	3 8	308
207	Madras	0530*	7.2	D	2 4	244
207	Minicoy	1730	0.15	D	3 8	348
208	Mohanbari	1130			Values printed against 0.6, 0.9, 1.5, 2.1, 3.0 & 3.6 levels be read for 0.3, 0.6, 0.9, 1.5, 2.1 & 3.0 levels respectively.	
208	Mohanbari	1730	0.3	D	0 0	040
210	Raipur	1730	2.1	D	28	284
210	Raipur	1730	5.4	V	1.1	14.1
210	Tezpur	0530	0.6	n	25	26
210	Tezpur	1730	0.15	D	76	076
210	Tezpur	1730	0.6	n	3	30
211	Tiruchirapalli	1730	3.0	n	28	27
211	Trivandrum	1130	Surface	D	29	294
212	Veraval	0530*	6.0	D	2 2	252
212	Veraval	0530*	7.2	D	2 4	7.2 254
212	Veraval	0530*	9.0	D	2 8	258
212	Veraval	1730*	3.6	V	1 .1	15.1
212	Veraval	1730*	5.4	D	23	235
212	Veraval	2330	6.0	D	2 2	252 252
212	Visakhapatnam	1730	0.15	n	3	30
213	Bamrauli	0530	14.1	Ht.in km	4.1	14.1
213	Bamrauli	1730	Time of ascent		17 0*	1730*
213	Begumpet	0530	12.0	v	50.0	59.0
213	Bhagalpur	1730	10.5	v	20.0	29.0
213	Gorakhpur	0530	10.5	D	3 0	340

Radiosonde Data

217	Madras	00 GMT	600 mb.	Ht.gpm.	4 29	4429
217	Madras	00 GMT	300 mb.	Max.	2 9	249
217	New Delhi	00 GMT	400 mb.	Min.	2 5	245
217	Port Blair	00 GMT	Surface	Ht.gpm.	0 9	079
218	Visakhapatnam	00 GMT	125 mb.	Mean	2 5.9	205.9
219	Bombay	12 GMT	250 mb.	Ht.gpm.	10046	11046
219	Calcutta	12 GMT	700 mb.	Mean	28 .9	285.9
220	Madras	12 GMT	500 mb.	Mean	270.2	270.0
220	Nagpur	12 GMT	400 mb.	Min.	2 9	249
220	Trivandrum	12 GMT	150 mb.	Ht.gpm.	4371	14371
220	Veraval	12 GMT	900 mb.	Max.	3 5	305
220	Veraval	12 GMT	300 mb.	Max.	2 8	248
220	Veraval	12 GMT	175 mb.	Min.	2 7	207
220	Veraval	12 GMT	80 mb.	Min.	96	196
221	Visakhapatnam	12 GMT	100 mb.	Mean	2 4.4	204.4
221	Visakhapatnam	12 GMT	150 mb.	Min.	2 8	208

S.G.&PTV.

TABLE I—DIVISIONAL AND SUB-DIVISIONAL MEANS, APRIL 1958 (CHAITRA 11—VAISAKHA 10, 1880 SAKA)

167

	Rainfall (millimetres)	Percentage of normal	Relative humidity %			Cloud			Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity %			Cloud		
			Mean maximum temperature °C	Mean minimum temperature °C	0830 hrs. I.S.T.	1730 hrs. I.S.T.	0830 hrs. I.S.T.	1730 hrs. I.S.T.					0830 hrs. I.S.T.	1730 hrs. I.S.T.	(830 hrs. I.S.T.)	1730 hrs. I.S.T.		
1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9	
Division																		
1. Assam (Including Manipur, Tripura)	162.9 -38.6	81	30.8 +0.9	21.0 +1.3	75 0	65	4.5 0	4.1	9. Madhya Pradesh	7.2 -4.4	62	39.3 +1.4	24.2 +2.3	32 0	19	2.3 +0.8	3.5	
2. West Bengal	54.1 +1.2	102	36.8 +0.7	24.7 +1.3	65 +1	48	3.0 +0.2	2.5	10. Bombay	6.5 -1.1	86	37.2 +0.4	24.4 +1.4	59 +5	39	2.4 +0.7	2.7	
3. Orissa	16.1 -9.7	62	35.7 +0.1	25.8 +1.1	66 -2	58	2.9 +0.3	4.4	11. Andhra Pradesh	25.6 +6.0	131	37.3 0	26.0 +0.5	65 +2	51	3.2 +0.3	3.6	
4. Bihar	17.9 +2.7	118	38.7 +1.2	23.8 +1.7	49 +5	33	2.1 +0.4	3.0	12. Madras State	43.4 +4.0	110	34.7 -0.8	25.8 +0.6	73 +1	59	3.9 +0.7	3.8	
5. Uttar Pradesh	4.4 -3.4	56	39.0 +1.6	22.9 +2.3	38 +1	23	1.4 +0.1	1.8	13. Mysore	62.3 +26.5	174	35.2 -0.6	23.1 +0.4	64 +3	43	3.6 +1.1	5.2	
6. Punjab (India) (Including Himachal Pradesh and Delhi)†	6.1 -2.5	71	38.9 +2.4	22.7 +2.7	38 +2	22	1.2 -0.3	1.4	14. Kerala	89.2 -21.5	81	33.0 +0.8	25.7 +0.1	76 -1	71	4.2 +0.4	5.3	
7. Jammu and Kashmir	30.8 -13.0	70	23.7 +2.2	10.9 +2.0	48 -10	45	3.9 +0.3	4.9	Mean of India (Excluding Jammu & Kashmir and Himachal Pradesh).	24.0 -1.6	94	37.5 +0.9	24.2 +1.6	51 +1	36	2.5 +0.4	3.2	
8. Rajasthan	0.9 -3.7	20	40.0 +2.8	22.4 +2.9	30 -4	14	1.4 +0.1	2.3										
Sub-Division																		
1. Bay Islands	0 -59.9	0	33.9 +2.2	25.4 +1.7	61 -12	72	2.5 -1.2	3.6	16. Madhya Pradesh (East).	12.6 -7.8	62	39.0 +1.5	24.5 +2.5	37 +1	23	2.7 +0.9	3.8	
2. Assam (Including Manipur, Tripura)	162.9 -38.6	81	30.8 +0.9	21.0 +1.3	75 0	65	4.5 0	4.1	17. Gujarat	0.1 -0.5	17	39.7 +0.7	24.7 +2.3	54 +5	22	1.4 +0.2	1.3	
3. Sub-Himalayan West Bengal.	105.8 +16.8	119	33.9 -0.3	22.5 +1.5	63 +3	44	3.3 +1.0	2.3	18. Saurashtra and Kutch.	1.3 +0.3	130	36.9 +0.7	23.5 +1.3	75 +10	47	2.0 +0.5	1.6	
4. Gangetic West Bengal.	34.7 -4.7	88	33.7 +1.0	25.3 +1.2	66 0	49	2.9 -0.1	2.6	19. Konkan	0 -7.2	0	31.9 +0.4	25.2 +0.7	74 0	69	3.0 +0.4	2.6	
5. Orissa	16.1 -9.7	62	35.7 +0.1	25.8 +1.1	66 -2	58	2.9 +0.3	4.4	20. Maharashtra	17.3 +4.1	131	38.8 +0.3	22.9 +1.1	46 +5	27	2.7 +1.3	4.3	
6. Chota Nagpur	19.4 +0.9	105	39.5 +1.3	24.0 +1.5	46 +5	34	2.3 +0.6	3.9	21. Vidarbha	7.8 -4.4	64	40.7 +0.2	26.0 +1.7	39 +7	25	2.8 +1.2	3.7	
7. Bihar	17.2 +3.6	126	38.3 +1.1	23.7 +1.8	52 +5	33	1.9 +0.3	2.4	22. Coastal Andhra Pradesh.	22.1 +3.1	116	36.0 +0.1	26.2 +0.6	71 -1	65	3.5 0	3.6	
8. Uttar Pradesh (East).	4.4 -2.6	63	39.3 +1.2	23.3 +2.0	37 +1	24	1.6 +0.4	1.6	23. Telangana	34.4 +9.6	139	38.4 +0.1	24.9 +0.5	57 +5	28	3.4 +1.2	3.7	
9. Uttar Pradesh (West).	4.5 -4.4	51	38.6 +2.1	22.5 +2.6	38 +2	22	1.3 -0.2	2.0	24. Rayalaseema	24.0 +8.1	151	39.7 -0.5	27.0 +0.3	61 +7	43	1.9 -0.2	3.3	
10. Punjab (India) (Including Delhi).	6.1 -2.5	71	38.9 +2.4	22.7 +2.7	38 +2	22	1.2 -0.3	1.4	25. Madras State	43.4 +4.0	110	34.7 -0.8	25.8 +0.6	73 +1	59	3.9 +0.7	3.8	
11. Himachal Pradesh	25.3 ..	34.0	15.9 ..	55 ..	27	2.1 ..	2.9	26. Coastal Mysore.	6.3 -16.7	27	32.6 -0.2	25.5 -0.1	75 +1	67	3.7 -0.1	4.7		
12. Jammu and Kashmir.	30.8 -13.0	70	23.7 +2.2	10.9 +2.0	48 -10	45	3.9 +0.3	4.9	27. Mysore (North).	66.2 +35.9	218	37.3 -0.5	23.4 +0.5	59 +3	39	3.2 +1.4	5.1	
13. Rajasthan (West)	0.4 -4.3	9	40.6 +3.5	21.5 +3.7	33 -5	14	1.2 -0.3	1.9	28. Mysore (South).	85.6 +37.1	176	33.9 -0.8	21.9 +0.5	69 +4	38	3.9 +1.3	5.5	
14. Rajasthan (East)	1.5 -3.2	32	39.5 +2.2	24.2 +2.3	28 -3	14	1.5 +0.4	2.7	29. Kerala	89.2 -21.5	81	33.0 +0.8	25.7 +0.1	76 -1	71	4.2 +0.4	5.3	
15. Madhya Pradesh (West)	3.5 -2.1	63	39.5 +1.3	24.0 +2.2	28 -1	16	2.1 +0.8	3.2	30. Arabian Sea	8.3 -35.5	19	33.7 +1.7	26.3 -0.2	73 +2	69	4.0 +0.6	4.3	

Note.—The entries in the second line for each division and sub-division indicate departures from normal.

† Data of Himachal Pradesh not included.

168 TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—APRIL, 1958 (CHAITRA 11—VAISAKHA 10, 1880 SAKA)

Division and station	Air temperature in °C								Rainfall in millimetres						No. of rainy days (2·5 mm. or more)		Wind speed, kms per hour				Weather phenomena—No. of days with																	
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0800-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Mean between 0830-1730 hours	Departure from normal	Mean 24 hours	Departure from normal	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dus. storm	Ground frost	Gale	Squall	Line squall										
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29									
Bay Islands																																						
Maya Bandar	30·6	..	32·0	3	25·7	..	23·2	24	46·5	46·5	..	46·5	24	1	..	10·9	5·3	..	1	0	0	0	0	0	0	0	0	0	0									
Long Island	33·4	..	34·6	24	24·8	..	22·8	9	0	24·9	..	24·9	24	1	..	3·4	1·1	..	1	0	0	7	0	0	0	0	0	0	0	0								
Port Blair	33·9	+2·2	35·1	24	25·4	+1·7	23·3	9	0	0	-59·9	0	..	0	-5·1	11·2	7·8	-1·7	0	0	0	4	3	0	0	0	0	0	0	0								
Car Nicobar	33·1	..	34·1	24,28	24·6	..	21·6	13	3·3	23·2	..	13·7	10	3	..	8·7	4·4	..	3	0	0	2	0	0	0	0	0	0	0									
Nancowry	31·5	..	33·7	12	25·8	..	22·8	11	27·5	50·4	..	22·9	5	4	..	1·6	0·6	..	6	0	0	9	0	0	0	0	0	0	0	0								
Kondul	31·3	..	32·6	22	26·0	..	24·7	8	2·8	4·1	..	3·8	13	1	..	7·0	4·1	..	2	0	0	0	15	0	0	0	0	0	0	0	0							
Assam (Including Manipur, Tripura)																																						
Pasighat	28·7	..	33·8	16	20·1	..	18·1	24	41·8	138·5	..	37·3	22	9	..	7·1 (c)	10·9 5·8	..	13	0	0	5	0	0	0	0	0	0	0	0	0							
Digboi	29·3	..	35·1	27	19·5	..	17·4	5	40·2	106·5	..	16·0	12	14	..	5·2	..	16	0	0	1	0	0	0	0	0	0	0	0	0	0							
Dibrugarh	29·5	+2·3	34·7	27	20·3	+1·5	18·3	1,12	14·5	92·7	+148·4	33·8	11	9	-4·6	4·2	3·2	+0·6	12	0	0	10	0	0	0	0	0	0	0	0								
Dibrugarh (Mohanbari Aerodrome)	29·3	..	34·8	16	19·9	..	17·3	5	30·2	127·8	..	31·6	11	10	..	7·7	5·7	..	19	0	0	13	0	0	0	0	0	0	0	0	0							
North Lakhimpur	29·3	..	33·8	5	19·3	..	16·8	6	18·9	81·6	..	20·5	23	9	..	..	..	..	16	0	0	5	0	0	0	0	0	0	0	0	0			
Sibsagar	30·5	+2·9	35·8	16	20·4	+1·5	17·9	1	32·0	80·8	-176·3	27·7	29	10	-4·1	6·9	5·4	+1·1	17	0	0	0	0	0	0	0	0	0	0	0								
Jorhat	..	..	..	..	19·7	..	17·2	1,15	37·9	113·3	..	24·9	23	11	..	..	..	..	19	0	1	15	0	0	0	0	0	0	0	0	0
Golaghat	30·8	..	35·6	8,16	..	..	..	..	5·0	123·2	..	53·3	17	12	..	..	..	..	17	0	0	0	0	0	0	0	0	0	0	0	0
Gohpur	30·0	..	35·4	16	19·8	..	16·2	4	33·0	130·3	..	32·3	23	13	..	7·5	5·4	..	16	0	0	0	0	0	0	0	0	0	0	0								
Tezpur	30·3	+0·8	36·8	8	20·9	+1·0	17·1	4	116·6	314·1	+161·4	54·4	10	17	+6·3	9·1	8·1	+1·3	20	0	1	12	0	0	0	0	0	0	0	0	0							
Tezpur (P.B.O.)	30·5	..	37·7	20	20·4	..	17·1	4	42·4	209·3	..	36·3	10	16	..	6·7	5·5	..	19	0	1	15	0	0	0	0	0	0	0	0	0							
Majbat	23·8	153·3	..	26·7	22	15	..	8·7	7·0	..	18	0	1	13	0	1	0	0	0	0	0	0	0	0						
Chaparmukh (R.)																																						
Tangla	30·1	..	35·8	8	20·3	..	18·2	7	16·5	218·1	..	45·2	11	16	..	8·1	6·2	..	19	0	0	5	0	0	0	0	0	0	0	0	0	0						
Gauhati	30·8	-0·1	36·1	8,16	21·8	+1·9	18·8	19	8·2	117·9	-27·1	23·1	12	10	0	5·8	4·8	+1·6	15	0	0	6	0	1	0	0	0	0	0	0	0	0						
Gauhati (Bhujor) Aerodrome	30·3	..	34·9	8	21·2	..	18·2	12	16·1	207·1	..	45·9	30	13	..	8·2	5·9	..	16	0	2	14	0	0	0	0	0	0	0	0	0	0						
Rangia	31·0	..	36·6	8	19·0	157·0	..	40·6	19	14	4·2	..	16	0	0	0	0	0	0	0	0	0	0	0	0	0						
Goalpara	31·0	..	39·9	26	20·6	..	17·3	19	15·6	367·7	..	82·5	22	15	..	7·0	5·5	..	17	0	0	0	0	0	0	0	0	0	0	0	0	0						
Dhubri	29·4	-1·8	35·2	5	22·5	+1·3	18·9	19	29·0	208·5	+70·8	23·9	29	12	+3·9	9·9	8·9	-1·2	12	0	0	5	0	0	0	0	0	0	0	0	0	0						
Dhubri (Rupsi Aerodrome)	31·5	..	36·6	16	21·5	..	18·1	19	12·9	317·9	..	85·6	27	11	..	8·3	6·4	..	16	0	6	17	0	0	0	0	0	0	0	0	0	0	0					
Tura	32·0	..	35·8	16	22·3	..	16·8	19	54·1	206·7	..	40·4	19	10	..	9·4	9·2	..	10	0	0	1	0	0	0	0	0	0	0	0	0	0	0					
Agartala	35·1	..	39·2	16	23·6	..	18·1	23	63·8	133·2	..	44·5	19	6	..	11·1	9·3	..	9	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0				
Silchar	31·5	+0·4	35·6	16	21·2	+0·8	17·1	10	51·1	243·9	-141·4	51·8	12	12	-2·3	1·0	0·8	+2·7	13	0	1	13	0	0	0	0	0	0	0	0	0	0	0	0				
Silchar (Kumbhigram Aerodrome)	32·5	..	36·3	27	20·4	..	17·6	10	93·1	282·2	..	43·0	11	15	..	7·7	8·5	..	16	0	4	17	0	0	0	0	0	0	0	0	0	0	0	0	0			
Imphal	30·0	..	34·4	27	15·8	..	11·8	7	4·7	68·0	..	9·7	12	11	..	12·4	8·1	..	14	0	1	14	0	0	0	0	0	0	0	0	0	0	0	0	0			
Haflong	28·4	..	32·1	27	17·3	..	12·6	23	41·4	240·5	..	37·6	22	15	..	14·5	10·4	..	17	0	0	15	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Lumding	33·8	+1·7	38·3	27	20·1	+1·0	18·3	11	40·0	82·6	-9·1	20·1	28	12	+4·8	6·7	4·6	..	16	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sub-Himalayan West Bengal																																						
Couch Behar (C.W.O.)	31·2	..	36·3	16	21·1	..	17·8	19	2·1	215·3	+71·8	74·2	27	9	+1·7	12·7	10·0	..	14	0	3	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Jalpaiguri	30·3	-1·6	35·3	16	21·3	+1·2	18·6	19	17·5	102·2	+8·5	27·4	22	6	+0·5	16·7	11·3	+7·4	9	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Bagdogra	32·0	..	36·7	16	20·5	..	16·5	5	20·9	98·8	..	46·1	27	6	..	18·9	14·5	..	8	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Maidan	37·4	+1·0	41·1	17	23·7	+1·9	19·4	6	0	0	-30·0	0	..	0	-2·0	9·9	8·7	+0·7	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Gangetic West Bengal																																						
Dum Dum	36·8	..	40·2	8	24·4	..	20·4	11	0	40·2	..	21·9	28	3	..	12·4	11·1	..	6	0	0	8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Calcutta	37·0	+1·0	40·4	8	25·6	+1·4	22·4	28	0	33·4	-11·1	18·0	28	2	-1·0	12·6																						

(b) Mean of 29 days

433-522-1

• 100 •

8.25 8.35 1

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—APRIL 1958 (CHAITRA 11—VAISAKHA 10, 1880 SAKA) 169

Division and station	Air temperature in °C									Rainfall in millimetres						No. of rainy days (2·5 mm. or more)	Wind speed, km. per hour			Weather phenomena—No. of days with									
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Cale	Squall	Line squall	
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
Gangetic West Bengal—Contd.																													
Berhampore	38·7	+1·5	43·1	17	24·4	+1·1	20·0	3	2·0	4·5	-33·1	4·0	20	1	-1·7	3·2	2·7	-2·9	2	0	0	1	0	0	0	0	0	0	
Orissa																													
Baripada	40·1	..	44·3	18	..	..	..	..	44·1	51·2	..	28·0	29	4	..	4·7	3·8	..	7	0	0	9	0	0	0	0	0	0
Balasore	37·8	+1·7	41·3	18	26·0	+1·6	22·1	5	0·8	5·4	-39·1	3·1	29	1	-2·5	20·1	13·3	+4·6	2	0	0	8	0	0	0	0	0	0	
Chandbali	34·6	-2·4	40·6	9	26·0	+1·2	21·1	22	1·5	51·1	+14·5	49·6	22	1	-1·9	18·7	16·1	+2·1	2	0	0	0	0	0	0	0	0	0	
Cuttack (R)																													
Bhubaneswar	38·5	..	41·6	23	26·1	..	24·4	20·24	1·5	1·5	..	1·5	28	0	..	27·4	24·8	..	1	0	0	3	0	0	0	0	0	0	
Puri	30·7	-0·2	31·7	15·28	27·0	+0·8	25·1	24	0	0	-14·7	0	..	0	-1·0	23·7	22·7	+2·6	0	0	0	0	0	0	0	0	0	0	
Gopalpur	31·6	+0·4	33·4	28	25·2	+0·1	20·2	24	0	2·3	-15·5	1·8	24	0	-1·4	22·8	19·0	-1·0	2	0	0	5	0	0	0	0	1	0	
Koraput	32·3	..	35·3	23	20·4	..	16·7	24	30·9	80·0	..	25·4	14	6	..	..	..	..	7	0	0	0	0	0	0	0	0	0
Titilagarh	37·9	..	40·8	22	26·0	..	23·0	12	1·0	44·1	..	23·1	27	3	..	6·0	4·9	..	5	0	0	6	0	0	0	0	0	0	
Bolangir	40·5	..	43·9	23	..	..	..	..	17·6	..	17·6	27	1	..	11·8	9·7	..	1	0	0	0	0	0	0	0	1	0	
Angul	39·8	+0·9	41·8	23	25·5	+1·4	22·7	5	30·2	35·4	+9·2	24·2	30	3	+0·8	10·7	9·0	+1·4	3	0	0	6	0	1	0	0	0	0	
Keonjhar	37·6	..	40·2	24	23·8	..	20·4	20	18·0	26·2	..	12·2	20	3	..	10·5	8·1	..	5	0	0	7	0	0	0	0	0	0	
Sambalpur	39·8	+0·4	42·6	24	25·3	+1·5	20·4	5	0	2·5	-12·5	2·0	27	0	-1·6	7·6	5·5	+0·8	2	0	0	4	0	0	0	0	0	0	
Jharsuguda	40·3	..	42·9	23	24·5	..	19·4	5	0	11·4	..	4·0	11	3	..	10·1	8·6	..	4	0	0	5	6	0	0	0	1	0	
Chota Nagpur																													
Jamshedpur	39·3	+0·4	41·7	18	24·8	+1·6	19·3	5	9·4	16·3	-6·6	9·4	20	2	-0·1	8·6	7·2	+1·9	4	0	0	4	0	2	0	0	0	0	
Jamshedpur(P.B.O)	40·1	..	42·5	18	24·7	..	19·3	5	10·2	24·2	..	10·2	20	3	..	4·3	2·8	..	5	0	0	11	0	1	0	0	0	0	
Chaibasa	40·3	+1·4	42·3	18	25·0	+1·3	21·8	5	8·3	25·1	-1·8	14·5	29	2	-0·2	6·1	4·2	+0·2	4	0	0	7	0	0	0	0	0	0	
Ranchi	37·6	+2·2	..	..	22·6	+0·8	..	..	(a) 0	(a) 2·5	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	0	0	0
Ranchi (C.W.O.)	36·8	..	39·1	18	22·4	..	16·7	28·29	13·8	16·8	..	9·7	28	3	..	20·1	8·8	..	5	0	0	7	0	0	0	0	0	0	
Daltonganj	40·3	+1·7	43·7	26	23·4	+2·3	18·9	6	15·0	18·1	+7·7	14·5	30	2	+1·2	9·6	5·2	-0·4	2	0	0	3	0	0	0	0	0	0	
Hazaribagh	37·9	+1·7	40·1	24	22·9	+0·8	19·1	7	3·3	18·1	+4·1	7·4	26	3	+1·5	13·0	10·2	-0·3	4	0	0	6	0	0	0	0	1	0	
Dhanbad	39·1	..	42·8	18	25·2	..	21·3	20	6·1	40·4	..	27·9	26	3	..	9·9	8·0	..	4	0	0	5	6	7	0	0	0	0	
Bihar																													
Purnea	37·2	+1·5	41·9	17	22·4	+1·7	17·3	5	40·6	69·1	+36·6	48·8	27	2	+0·2	11·4	8·7	+3·2	2	0	0	2	0	1	0	0	0	0	
Forbesganj	37·0	..	41·8	17	22·1	..	18·8	19	28·5	54·7	..	23·1	27	3	..	14·6	11·0	..	5	0	0	3	0	1	0	0	1	0	
Darbhanga	37·1	+1·0	40·9	17	23·0	+2·0	19·7	6	0	41·7	+24·4	41·7	27	1	-0·3	10·2	8·0	-1·9	1	0	0	0	0	0	0	0	0	0	
Motihari (R)																													
Muzaffarpur	25·4	+13·2	25·4	26	1	+0·1	1
Ghagra	8·1	0	8·1	27	1	+0·3	1
Arrah	..	..	..	..	..	..	..	..	..	..	0	-6·3	0	..	0	-0·5	..	..	0	..	..	..	..	..	..	..	..	..
Patna	38·6	+1·4	42·3	16	24·6	+1·5	21·3	6	0	6·3	-0·6	6·3	27	1	+0·4	11·2	9·3	+2·4	1	0	0	1	0	0	0	0	0	0	
Patna (Aerodrome)	38·7	..	41·7	11·16	23·5	..	20·4	1·6	0	2·5	..	2·5	27	1	..	12·9	9·1	..	1	0	0	2	0	0	0	0	0	0	
Dehri	40·1	..	43·1	27	25·0	..	20·4	5	0	0	-5·8	0	..	0	0	-0·6	10·5	7·1	..	0	0	0	0	0	2	0	0	0	
Gaya	40·4	+1·6	43·2	18	24·7	+2·1	20·0	5	5·3	5·3	-0·8	5·3	28	1	+0·4	13·5	8·8	+0·5	1	0	0	2	0	6	0	0	3	0	
Jamui	39·2	..	42·5	11	24·0	..	16·1	1	8·0	11·3	..	5·4	27	3	..	11·1	7·5	..	5	0	0	1	0	0	0	0	0	0	
Dumka	38·9	+1·2	43·3	18	24·9	+1·7	21·6	6·7	3·1	11·2	-10·1	8·1	26	2	+0·1	10·2	7·9	+3·7	2	0	0	2	0	1	0	0	0	0	
Bhagalpur	37·5	..	41·1	15·16	23·9	..	20·4	6	13·6	18·8	..	10·8	27	2	..	11·2	9·5	..	3	0	0	4	0	0	0	0	0	0	
Sabour	37·5	+0·2	40·8	17	22·7	+1·8	17·6	5	6·4	13·0	-5·3	7·1	27	2	+0·7	13·2	9·7	0	3	0	0	5	0	1	0	0	2	0	
Uttar Pradesh (East)																													
Gonda	38·3	+0·6	41·4	17	21·4	+1·1	17·2	15	0	0	-8·9	0	..	0	-														

(R) Register not received.

*Data not reliable.

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—APRIL, 1958 (CHAITRA 11—VAISAKHA 10, 1880 SAKA) 171

Division and station	Air temperature in °C										Rainfall in millimetres					No. of rainy days (2.5 mm. or more)			Wind speed, kms. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Departure from normal	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall	Line squall						
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29				
Rajasthan (West)— contd.																																	
Bikaner . .	40.3	+2.4	46.8	25	24.2	+2.9	17.3	3.4	0	0	-4.8	0	..	0	-0.5	9.5	7.1	-0.5	0	0	0	3	0	1	0	0	0	0	0	0			
Jaisalmer . .	39.8	..	43.8	28	22.1	..	18.6	2	0	0	..	0	..	0	..	17.4	12.2	..	0	0	0	0	0	0	0	0	0	0	0	0			
Phalodi . .	39.6	..	47.0	25	24.8	..	19.6	2.4	0	0	-3.1	0	..	0	-0.3	16.3	13.9	..	0	0	0	1	1	2	0	0	0	0	0	0			
Jodhpur . .	41.2	+3.8	48.0	25	24.6	+3.0	16.6	10	0	0	-3.3	0	..	0	-0.5	12.2	10.0	-0.9	0	0	0	0	0	0	1	0	0	0	0	0			
Barmer . .	41.4	+3.5	48.3	25	27.0	+3.5	21.2	2.3	0.5	0.5	-4.3	0.5	17	0	-0.4	12.1	12.0	+3.5	1	0	0	2	0	0	0	0	0	0	0	0			
Rajasthan (East)																																	
Alwar . .	39.9	..	46.4	26	24.2	..	18.3	5	0	0	..	0	..	0	..	8.0	5.6	..	0	0	0	1	0	0	0	0	0	0	0	0	0		
Sikar . .	38.3	..	44.4	25,28	21.2	..	15.0	3.4	0.8	3.3	..	3.3	30	1	..	12.7	7.9	..	1	0	0	0	0	0	0	0	0	0	0	0			
Jaipur . .	39.3	+2.5	45.6	27	23.7	+3.3	17.2	4.5	0.5	5.8	+1.5	5.3	10	1	+0.5	10.1	7.3	-0.4	2	0	0	7	0	0	0	0	0	1	0	0			
Jaipur (Sanganer Aerodrome)	38.8	..	44.9	27	23.4	..	16.3	4	0	2.0	..	2.0	17	0	..	..	..	..	1	0	0	3	0	0	1	0	0	0	0	0	0
Dholpur . .	40.8	..	45.8	28	23.7	..	18.3	6	0	0	..	0	..	0	..	11.9	7.3	..	0	0	0	1	0	7	0	2	0	0	0	0	0		
Ajmer . .	38.2	+1.9	44.6	26	24.6	+2.7	17.9	5	1.5	1.5	-2.3	1.5	11	0	-0.4	10.7	8.4	+1.2	1	0	0	3	0	0	0	0	0	0	0	0	0		
Kotah . .	41.3	+2.6	47.5	27	26.5	+2.2	20.6	4	0	0	-5.3	0	..	0	-0.5	..	..	..	0	0	0	0	0	0	1	0	0	0	0	0	0
Chambal . .	40.4	..	46.0	27	24.3	..	19.1	5	0	0	..	0	..	0	..	13.5	8.8	..	0	0	0	2	0	0	0	0	0	0	0	0	0		
Jhalawar . .	40.7	+2.6	46.3	27	24.4	+3.2	19.3	4	0	0	-6.9	0	..	0	-0.5	9.7	8.0	+2.4	3	0	0	2	0	0	0	0	0	0	0	0	0		
Udaipur . .	37.9	+1.4	44.4	27	22.0	+0.2	16.1	7	0	0	-2.8	0	..	0	-0.2	6.3	4.0	..	0	0	0	4	0	0	0	0	0	0	0	0	0		
Eripura (Jawai Dam)	39.1	..	45.6	27	26.8	..	22.2	2	0	0	..	0	..	0	..	8.8	8.0	..	0	0	0	0	0	0	0	0	0	0	0	0	0		
Madhya Pradesh (West)																																	
Gwalior (P.B.O.)	40.6	+1.5	46.2	28	24.0	+0.7	18.4	5	0	0	-5.1	0	..	0	-0.6	12.3	6.9	..	0	0	0	1	0	0	0	0	0	0	0	0	0		
Sheopur Kalan . .	40.4	..	45.9	27	23.5	..	17.3	4	0	0	..	0	..	0	..	11.9	8.4	..	0	0	0	4	0	2	0	0	0	0	0	0	0	0	
Guna . .	39.2	+1.6	43.4	27	22.9	+3.5	17.2	5	0	0.4	-7.0	0.4	27	0	-0.5	15.4	9.6	..	1	0	0	2	0	0	0	0	0	0	0	0	0		
Rajgarh . .	40.8	..	46.3	24	24.3	..	17.8	4	0	0	..	0	..	0	..	14.7	10.8	..	0	0	0	0	0	0	0	0	0	0	0	0	0		
Neemuch . .	38.9	+1.6	44.6	27	24.2	+2.6	18.4	3	0	2.6	-0.5	2.6	29	1	+0.7	13.1	10.7	+1.2	1	0	0	3	0	0	0	0	0	0	0	0	0		
Ratlam . .	39.1	..	45.2	27	23.9	..	18.2	8	0.8	1.7	..	1.1	29	0	..	9.9	7.6	..	2	0	0	1	0	2	0	0	1	0	0	0			
Alirajpur . .	39.4	..	41.0	26,27	24.4	..	19.8	3	4.3	15.9	..	13.1	29	2	..	11.2	9.0	..	2	0	0	0	1	0	0	0	0	0	0	0			
Indore . .	38.5	+0.2	44.6	25	22.9	+2.9	17.6	4	1.8	5.0	+1.7	5.0	30	1	+0.7	17.5	16.0	..	1	0	0	3	0	0	0	1	1	0	0	0			
Bhopal (Bairagarh)	39.1	+1.8	44.2	27	23.8	+2.2	19.0	9	0	0.8	-4.8	0.8	27	0	-0.7	15.5	12.0	+1.1	1	0	0	3	0	1	0	0	0	0	0	0			
Khandwa . .	41.1	+0.9	46.7	25	25.8	+2.1	20.3	4	0	3.8	+1.0	3.8	27	1	+0.7	12.0	9.8	+1.4	1	0	0	1	0	0	0	0	0	0	0	0			
Hoshangabad . .	40.6	+1.8	45.2	27	25.7	+2.6	21.6	9	0	0	-3.3	0	..	0	-0.3	3.3	1.9	-2.1	0	0	0	1	0	0	0	0	0	0	0	0	0		
Betul . .	38.2	..	42.6	26	22.5	..	17.4	4	2.5	5.7	..	3.2	21	2	..	9.1	5.9	..	2	0	0	7	0	0	0	0	0	0	0	0	0		
Chhindwara . .	37.5	..	42.5	27	22.7	..	18.5	6	5.4	14.0	..	9.0	3	2	..	11.0	7.5	..	3	0	0	6	0	1	0	0	0	0	0	0	0		
Seoni . .	38.1	+0.6	42.5	25,26	22.9	+1.5	18.9	4	6.5	18.7	+3.5	7.9	28	3	+1.3	9.2	6.4	+0.9	5	0	0	10	0	1	0	0	0	0	0	0	0		
Sagar . .	38.7	+1.0	43.3	27	25.3	+2.5	21.6	8	0.4	0.4	-4.9	0.4	18	0	-0.5	12.5	9.9	..	1	0	0	4	0	0	0	0	0	0	0	0	0		
Nowrang . .	40.5	+1.7	44.8	28	22.7	+1.5	15.9	4	2.9	2.9	-1.4	2.9	19	1	+0.7	9.8	5.8	+2.1	1	0	0	2	0	0	0	0	0	0	0	0	0		
Madhya Pradesh (East)																																	
Sutna . .	40.2	+2.1	43.5	28	24.7	+2.8	19.0	4	0	0	-7.1	0	..	0	-0.7	11.0	6.3	+0.3	0	0	0	5	0	0	0	0	0	0	0	0	0	0	
Umaria . .	39.8	+2.6	43.1	26,27	24.2	+3.8	18.3	5	0	0	-11.7	0	..	0	-0.9	9.1	6.1	+0.5	0	0	0	1	0	2	0	0	0	0	0	0	0	0	
Jabalpur . .	40.0	+1.9	43.7	27	23.9	+3.7	18.2	4	0	0	-8.1	0	..	0	-0.8	9.2	5.9	+2.0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	
Mandla . .	38.6	..	43.2	25	20.5	..	14.3	4	9.9	17.5	..	7.2	3																				

172 TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—APRIL, 1958 (CHAITRA 11—VAISAKHA 10, 1880 SAKA)

Division and station	Air temperature in °C								Rainfall in millimetres				No. of rainy days (2.5 mm. or more)	Wind speed, kms. per hour		Weather phenomena—No. of days with															
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours		Total in the month	Departure from normal	Mean between 0830-1730 hours	mean 24 hours	Departure from normal	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall	Line squall			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29		
Saurashtra and Kutch																															
Naliya . .	34.0 ..	38.6 ..	27	21.9 ..	18.5 ..	4	0 ..	0 ..	.. ..	0 ..	0 ..	.. ..	0 ..	0 ..	.. ..	19.7 ..	13.9 ..	.. ..	0 ..	0 ..	0 ..	0 ..	0 ..	2 ..	0 ..	0 ..	0 ..	0 ..	0 ..	
Bhuj (P.B.O.) . .	38.6 +0.9 ..	44.5 ..	27	23.5 ..	+1.7 ..	19.5 ..	3 ..	0 ..	0 ..	-1.8 ..	0 ..	.. ..	0 ..	0 ..	.. ..	13.8 ..	12.0 ..	+0.1 ..	0 ..	0 ..	0 ..	3 ..	1 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	
Bhuj (Aerodrome) . .	38.8 ..	44.8 ..	27	23.1 ..	.. ..	18.8 ..	3 ..	0 ..	0 ..	.. ..	0 ..	.. ..	0 ..	0 ..	.. ..	14.2 ..	13.8 ..	.. ..	0 ..	0 ..	0 ..	2 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	
Kandla . .	35.0 ..	39.7 ..	27	23.8 ..	.. ..	21.0 ..	17 ..	0 ..	0 ..	.. ..	0 ..	.. ..	0 ..	0 ..	.. ..	23.0 ..	21.5 ..	.. ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	1 ..	0 ..	0 ..	
Mandvi . .	31.8 ..	41.1 ..	27,28	23.7 ..	.. ..	20.6 ..	4 ..	0 ..	0 ..	.. ..	0 ..	.. ..	0 ..	0 ..	.. ..	30.9 ..	26.8 ..	.. ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	
Dwarka . .	29.9 ..	+0.4 ..	31.3 ..	27	25.3 ..	+0.6 ..	22.8 ..	14 ..	0 ..	0 ..	-0.8 ..	0 ..	.. ..	0 ..	0 ..	.. ..	17.7 ..	16.9 ..	+1.5 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..
Porbander . .	31.1 ..	34.6 ..	17	23.9 ..	.. ..	20.7 ..	6 ..	0 ..	0 ..	.. ..	0 ..	.. ..	0 ..	0 ..	.. ..	.. ..	.. ..	.. ..	.. ..	0 ..	0 ..	0 ..	0 ..	0 ..	2 ..	0 ..	0 ..	0 ..	0 ..	0 ..
Porbander (Aero-drome) ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	16.0 ..	.. ..	.. ..	0 ..	0 ..	0 ..	0 ..	0 ..	3 ..	0 ..	0 ..	0 ..	0 ..	0 ..
Jamnagar . .	.. ..	.. ..	.. ..	.. ..	22.8 ..	+2.1 ..	19.1 ..	6 ..	0 ..	0 ..	-0.5 ..	0 ..	.. ..	0 ..	0 ..	.. ..	.. ..	.. ..	0 ..	0 ..	0 ..	1 ..	1 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..
Rajkot (Aero-drome) ..	39.1 ..	+0.3 ..	44.2 ..	27	22.1 ..	+1.3 ..	17.2 ..	10 ..	7.1 ..	7.9 ..	+7.1 ..	7.9 ..	15 ..	1 ..	+0.9 ..	21.3 ..	21.2 ..	+8.2 ..	1 ..	0 ..	1 ..	2 ..	2 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..		
Surendranagar . .	40.3 ..	45.1 ..	25	24.3 ..	.. ..	21.2 ..	7 ..	1.3 ..	6.1 ..	.. ..	6.1 ..	14 ..	1 ..	.. ..	14.7 ..	15.8 ..	.. ..	1 ..	0 ..	0 ..	1 ..	0 ..	1 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	
Bhavnagar . .	40.1 ..	+1.2 ..	44.5 ..	24,27	24.0 ..	+0.9 ..	20.7 ..	8 ..	0 ..	0 ..	-2.5 ..	0 ..	.. ..	0 ..	-0.3 ..	10.9 ..	10.6 ..	+1.4 ..	0 ..	0 ..	0 ..	1 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..
Bhavnagar (Aero-drome) ..	38.4 ..	43.3 ..	27	24.9 ..	.. ..	20.3 ..	8 ..	.. ..	0 ..	.. ..	0 ..	.. ..	0 ..	.. ..	.. ..	.. ..	19.4 ..	.. ..	0 ..	0 ..	0 ..	1 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..
Mahuva . .	35.9 ..	42.3 ..	18	23.7 ..	.. ..	18.7 ..	10 ..	0 ..	0 ..	.. ..	0 ..	.. ..	0 ..	.. ..	.. ..	(b) 18.1 ..	14.5 ..	.. ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	
Keshod . .	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	25.3 ..	17.6 ..	.. ..	0 ..	0 ..	0 ..	0 ..	6 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..
Veraval . .	30.6 ..	36.7 ..	18	22.6 ..	.. ..	18.8 ..	9 ..	0 ..	0 ..	0 ..	0 ..	.. ..	0 ..	.. ..	0 ..	0 ..	21.7 ..	17.4 ..	.. ..	0 ..	0 ..	0 ..	0 ..	3 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..
Konkan																															
Dahanu . .	32.9 ..	+0.2 ..	34.6 ..	25	24.3 ..	+6.4 ..	22.1 ..	1.9 ..	0 ..	0 ..	-24.4 ..	0 ..	.. ..	0 ..	-1.0 ..	22.0 ..	15.3 ..	+1.5 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..
Bombay (Colaba) ..	32.9 ..	+1.2 ..	34.9 ..	18	25.4 ..	+0.9 ..	23.6 ..	5.11 ..	0 ..	0 ..	-0.8 ..	0	0 ..	0 ..	15.2 ..	11.8 ..	+0.4 ..	0 ..	0 ..	0 ..	1 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..
Bombay (Santa-cruz Aerodrome) ..	33.5 ..	+1.4 ..	37.4 ..	18	24.3 ..	+1.9 ..	21.6 ..	1 ..	0 ..	0 ..	-0.8 ..	0	0 ..	0 ..	19.2 ..	12.1	0 ..	0 ..	0 ..	1 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..
Alibag . .	31.3 ..	+0.4 ..	33.8 ..	19	24.5 ..	+0.4 ..	22.2 ..	11	0 ..	-0.3 ..	0	0 ..	0	11.8 ..	+0.9 ..	0 ..	0 ..	0 ..	2 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..
Harnai . .	29.5 ..	-0.7 ..	32.2 ..	28	26.1 ..	+0.8 ..	24.5 ..	6.11 ..	0 ..	0 ..	-12.7 ..	0	0 ..	-1.0 ..	20.7 ..	18.9 ..	+3.9 ..	0 ..	0 ..	0 ..	1 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..
Ratnagiri . .	31.9 ..	33.4 ..	24,29	25.8 ..	.. ..	23.2 ..	11 ..	0 ..	0 ..	-2.5 ..	0 ..	.. ..	0 ..	-0.3 ..	.. ..	.. ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..
Devgad . .	32.0 ..	-0.2 ..	33.9 ..	17	26.5 ..	+0.1 ..	24.7 ..	1 ..	5.6 ..	0 ..	-8.6 ..	0	0 ..	-0.6 ..	20.9 ..	16.6 ..	+0.5 ..	0 ..	0 ..	0 ..	3 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..
Vengurla . .	33.0 ..	35.0 ..	30	25.0 ..	.. ..	21.7 ..	11 ..	0.6 ..	1.2 ..	.. ..	1.2 ..	30 ..	0 ..	.. ..	14.1 ..	8.5 ..	.. ..	1 ..	0 ..	0 ..	8 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..
Maharashtra																															
Nandurbar . .	40.9 ..	45.6 ..	25	26.0 ..	.. ..	21.9 ..	8 ..	37.1 ..	44.1 ..	.. ..	41.2 ..	30 ..	1 ..	.. ..	10.0 ..	9.7 ..	.. ..	4 ..	0 ..	0 ..	5 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..
Jalgaon . .	41.9 ..	47.2 ..	25	25.7 ..	.. ..	21.8 ..	8 ..	0 ..	2.0 ..	+0.2 ..	2.0 ..	27 ..	0 ..	-0.2 ..	15.6 ..	14.9 ..	.. ..	1 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	
Malegaon . .	39.8 ..	+0.2 ..	44.6 ..	26,27	22.8 ..	+1.2 ..	18.9 ..	1 ..	26.2 ..	29.5 ..	+26.4 ..	27.0 ..	28 ..	1 ..	+0.7 ..	11.3 ..	10.0 ..	-0.1 ..	3 ..	0 ..	0 ..	5 ..	0 ..	2 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	
Deolali . .	37.9 ..	42.8 ..	24	20.4 ..	.. ..	15.1 ..	15 ..	0 ..	38.6 ..	.. ..	24.6 ..	27 ..	4 ..	.. ..	11.3 ..	9.1 ..	.. ..	4 ..	0 ..	1 ..	7 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..
Aurangabad . .	39.4 ..	+0.9 ..	43.9 ..	26	24.2 ..	+1.0 ..	20.0 ..	11 ..	0 ..	6.0 ..	-0.1 ..	6.0 ..	29 ..	1 ..	+0.4 ..	11.4 ..	11.2 ..	-0.9 ..	1 ..	0 ..	0 ..	8 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	
Aurangabad (Chikalthana Aerodrome) ..	39.0 ..	43.6 ..	26	22.7 ..	.. ..	17.7 ..	1 ..	1.5 ..	0.6 ..	.. ..	0.6 ..	21 ..	0 ..	.. ..	13.2 ..	11.1 ..	.. ..	1 ..	0 ..	0 ..	8 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..
Khandala
Ahmednagar . .	38.4 ..	+0.5 ..	43.1 ..	25	22.3 ..	+1.3 ..	18.7 ..	13 ..	1.0 ..	11.0 ..	+0.8 ..	7.0 ..	27 ..	2 ..	+0.9 ..	9.5 ..	7.9 ..	-1.9 ..	2 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	0 ..	
Parbhani . .	39.9 ..	45.0 ..	25	24.4 ..	.. ..	20.5 ..	20 ..	1.8 ..	32.2 ..	+21.5 ..	10.9 ..	20 ..	5 ..	+3.8 ..	10.5 ..	9.4 ..	.. ..	6 ..	0 ..	0 ..	8 ..	0 ..	1 ..	0 ..	0 ..	0 ..	2 ..	0 ..	0 ..	
Poona . .	38.5 ..	+0.2 ..	43.2 ..	24																											

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—APRIL, 1958 (CHAITRA 11—VAISAKHA 10, 1880 SAKA) 173

Division and station	Air temperature in °C									Rainfall in millimetres						No. of rainy days (2.5 mm. or more)	Wind speed, kms. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29		
Coastal Andhra Pradesh.																															
Nellore . .	36.9	-0.5	41.0	24	26.1	+0.9	23.8	13	8.5	8.8	-3.4	8.5	22	1	+0.4	14.9	11.3	+2.3	2	0	0	1	0	0	0	0	0	0	0		
Ongole . .	32.8	..	35.6	9	26.5	..	24.4	23	0	0	..	0	..	0	..	15.9	10.0	..	0	0	0	0	0	0	0	0	0	0	0		
Rentachintala . .	39.6	+1.0	43.3	24	26.2	0	21.7	20	0	20.3	-9.9	20.3	20	1	-1.7	6.1	6.5	-4.1	1	0	0	1	0	0	0	0	0	0	0		
Gannavaram . .	37.5	..	38.8	28	25.8	..	22.8	20	0.5	4.9	..	4.4	20	1	..	17.6	13.3	..	2	0	0	2	0	0	0	0	0	0	0		
Masulipatam . .	34.2	-0.4	35.6	8,19	25.9	+0.5	22.5	20	20.4	50.6	+33.1	30.0	20	3	+2.1	17.8	12.5	+3.2	3	0	0	3	0	0	0	0	0	0	0		
Nidadavolu . .	36.1	..	38.0	28	25.7	..	22.9	2	2.4	2.4	..	2.4	22	0	..	10.3	6.8	..	1	0	0	2	0	0	0	0	0	0	0		
Kakinada . .	36.3	+0.7	37.5	23	26.4	+0.6	24.1	1,2	0	0	-16.3	0	..	0	-1.0	11.1	9.2	+1.0	0	0	0	0	0	0	0	0	0	0	0		
Visakhapatnam . .	35.6	-0.3	37.7	13	26.4	+1.1	23.3	28	0	24.5	+6.5	16.3	24	3	+1.7	24.8	15.5	+1.8	3	0	0	6	0	0	0	0	1	0	0		
Calingapatam . .	33.4	-0.2	35.6	21	26.3	+0.6	22.2	24	0	28.2	+8.9	28.2	24	1	-0.5	15.6	16.1	+2.7	1	0	0	1	0	0	0	0	0	0	0		
Tel'angana																															
Ramagundam . .	40.1	..	44.5	24	27.1	..	20.8	12	0	24.8	..	16.0	12	2	..	6.9	8.1	..	4	0	0	7	0	6	0	0	0	0	0	0	
Nizamabad . .	39.3	-0.5	42.3	24,25	25.7	+1.1	20.8	20	0	6.3	-15.3	3.3	18	2	0	5.4	6.0	+0.9	2	0	0	1	0	1	0	0	0	0	0	0	
Mahbubnagar . .	36.9	..	39.5	24	24.6	..	19.2	13	0	33.1	..	14.2	12	3	..	9.1	8.0	..	6	0	0	6	0	1	0	0	0	0	0	0	
Hyderabad (Begumpet Aerodrome). .	36.8	-0.3	39.9	24	23.9	+0.2	19.8	11	1.9	70.3	+40.6	54.0	30	2	+0.1	11.2	9.9	-0.6	7	0	0	9	0	0	0	0	8	0	0		
Hakimpet . .	36.3	..	39.6	24	23.8	..	19.0	11	1.0	23.3	..	11.9	9	3	..	..	..	..	5	0	0	9	0	0	0	0	0	0	0
Hanamkonda . .	39.2	+1.0	42.4	24	25.2	+0.1	20.9	18	0	26.6	+3.5	20.8	18	2	+0.4	9.5	10.9	+1.4	3	0	0	3	0	0	0	0	0	0	0		
Bhadra challam . .	39.4	..	42.1	23	25.6	..	23.0	1	20.0	22.8	..	15.0	30	2	..	8.3	9.4	..	3	0	0	4	0	0	0	0	0	0	0		
Khammameth . .	39.0	..	42.1	24	26.0	..	23.9	2	5.6	27.9	..	18.0	20	3	..	7.9	8.1	..	3	0	0	1	0	0	0	0	0	0	0		
Rayalaseema																															
Arogavaram . .	34.7	..	37.5	9	22.2	..	18.8	14	4.4	67.6	..	4.6	14	4	..	7.7	7.4	..	5	0	1	7	0	0	0	0	0	0	0	0	
Cuddapah . .	39.7	-0.7	42.9	24	27.4	+0.2	21.8	25	0	21.4	+6.9	12.0	25	2	+0.9	10.9	7.9	-3.4	3	0	0	0	0	0	0	0	0	0	0		
Anantapur . .	38.6	..	41.1	9	25.7	..	22.1	13	0	21.8	+5.5	14.6	13	2	+0.7	8.5	9.3	..	3	0	0	6	0	0	0	0	1	0	0		
Kurnool . .	39.6	-0.2	42.1	24	26.6	+0.5	20.4	10	0	28.9	+11.9	14.4	10	3	+1.5	9.6	8.8	+1.2	4	0	0	2	0	0	0	0	2	0	0		
Madras State																															
Palayamcottai . .	33.0	..	37.7	25	26.1	..	22.7	21	86.9	62.1	-0.9	35.4	12	2	-1.7	9.1	7.7	..	5	0	0	9	0	0	0	0	0	0	0		
Tuticorin . .	31.8	..	34.4	25	26.5	..	24.4	4	2.2	26.9	..	12.6	4	2	..	16.9	12.5	..	3	0	0	0	0	0	0	0	0	0	0		
Pamban . .	31.3	-1.5	32.7	18	26.7	+0.2	23.8	21	32.1	67.9	+21.2	33.4	21	6	+2.8	6.6	5.4	-4.4	6	0	0	0	0	0	0	0	0	0	0		
Mathurai . .	36.7	+0.1	39.1	10	25.2	+0.4	20.1	21	23.0	57.3	+2.4	27.8	21	4	+0.9	5.5	4.3	-0.4	6	0	0	0	0	0	0	0	0	0	0		
Nagappatinam . .	32.3	-1.0	36.7	25	27.6	+1.1	25.8	22	0.4	1.8	-26.4	0.8	21	0	-1.3	16.0	14.6	+4.5	3	0	0	4	0	0	0	0	0	0	0		
Tiruchirapalli . .	36.9	-0.9	39.1	10	25.8	+0.2	23.6	1	14.5	36.0	-9.7	19.3	12	2	0	9.5	9.9	+1.0	4	0	0	9	0	0	0	0	0	0	0		
Coimbatore . .	33.6	-2.2	36.4	6	23.6	+0.5	21.0	21	10.0	72.5	+32.4	32.6	15	6	+2.8	7.9	6.6	+2.4	8	0	0	9	0	0	0	0	0	0	0		
Coimbatore (Peela-medu Aerodrome) . .	35.4	..	37.1	11,18	23.5	..	21.0	15	0	120.7	..	111.0	15	2	..	12.7	12.7	..	6	0	0	8	0	0	0	0	0	0	0	0	
Salem . .	36.8	-1.1	39.4	18	25.0	+0.3	21.9	25	15.6	49.4	+0.4	23.6	25	3	-0.6	7.2	8.7	+2.4	4	0	0	11	0	0	0	0	0	0	0	0	
Kallakurichi . .	37.9	..	40.6	25	25.9	..	23.6	1,2	3.5	0	..	0	..	0	..	8.9	7.7	..	0	0	0	5	0	0	0	0	0	0	0	0	0
Cuddalore . .	33.2	-0.2	39.6	25	26.0	+0.6	23.6	1	0	0.8	-24.1	0.8	25	0	-1.1	13.5	8.8	+0.6	1	0	0	2	0	0	0	0	0	0	0	0	
Vellore . .	36.7	-0.4	40.1	25	25.5	+0.9	22.3	4	0.5	65.7	+40.3	42.9	14	2	+0.5	11.1	9.7	+3.7	2	0	0	4	0	0	0	0	0	0	0	0	
Madras . .	35.2	-0.1	37.2	24	26.7	+1.1	24.0	1	20.2	20.2	+4.7	20.2	21	1	+0.1	15.5	10.2	-1.2	1	0	0	4	0	0	0	0	0	0	0	0	
Madras (Nungambakkam) . .	33.2	..	35.9	24	26.0	..	23.6	1	..	2.2	..	1.9	22	0	8.4	..	2	0	0	4	0	0	0	0	0	0	0	0	0
Coastal Mysore																															
Karwar . .	30.6	..	32.4	21,29	25.5	..	22.4	10	0	4.0	-9.2	2.8	20	1	+0.1	15.6</td															

174 TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—APRIL 1958 (CHAITRA 11—VAISAKHA 10, 1880 SAKA)

Division and station	Air temperature in °C								Rainfall in millimetres						No. of rainy days (2·5 mm. or more)		Wind speed, kms. per hour		Weather phenomena—No. of days with												
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder head	Dust-storm	Ground frost	Gale	Squall	Line squall					
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29		
Mysore (South)																															
Bellary . .	37·9	-1·4	40·3	24	25·8	+0·6	22·2	13	15·0	14·2	-7·1	5·0	19	3	+1·1	6·6	5·8	-0·5	5	0	0	7	0	0	0	0	0	0	0		
Chitaldrug . .	35·4	-0·9	38·2	24	22·8	+0·1	17·6	25	4·6	34·0	+9·4	17·6	25	4	+2·0	6·8	6·3	-0·6	9	0	1	6	0	0	0	0	0	0	0		
Shimoga . .	35·6	..	37·8	7	22·3	..	20·3	20	8·0	52·0	..	13·0	24	5	..	6·2	4·9	..	10	0	0	10	0	0	0	0	0	0	0		
Balehonnur . .	30·9	+0·2	32·9	3	19·5	+0·6	17·2	13	..	203·8	+113·6	71·2	20	7	..	..	..	..	9	0	1	6	0	0	0	0	0	0	0
Hassan . .	32·5	-1·1	35·1	7·8	20·4	+0·7	18·1	9	32·0	95·0	+39·1	30·0	20	5	+0·8	6·3	6·4	+0·1	8	0	0	14	0	0	0	0	0	0	0		
Mysore . .	33·6	-1·2	35·6	8	21·1	-0·2	18·0	25	13·6	64·2	+5·8	23·6	25	5	+0·4	7·7	7·5	-0·2	8	0	0	7	0	0	0	0	0	0	0		
Bangalore (Central Observatory)	33·0	-0·6	35·1	8	21·5	+0·9	18·4	14	12·6	102·6	+61·7	57·0	14	5	+2·4	8·4	8·1	+1·2	7	0	0	11	0	0	0	0	0	4	0		
Bangalore (Aero-drome)	33·9	..	36·7	24	21·6	..	18·3	14	16·0	58·7	..	36·0	14	3	..	..	..	..	5	0	0	13	0	0	0	0	0	6	0
Kerala																															
Kozhikode . .	33·6	+0·8	34·8	25	26·0	+0·2	22·6	27	6·0	29·6	-61·3	9·4	27	4	-0·2	13·1	11·6	+0·8	5	0	0	13	0	0	0	0	0	0	0		
Palghat . .	36·1	..	39·0	3	25·1	..	21·4	15·21	14·1	170·5	..	43·0	28	9	..	8·7	7·9	..	10	0	0	11	0	0	0	0	0	0	0		
Fort Cochin . .	32·3	+0·9	33·4	10	26·1	+0·2	21·8	20	17·8	93·5	+32·0	25·6	20	8	+1·3	12·1	8·6	+0·1	11	0	0	14	0	0	0	0	0	0	0		
Cochin (Naval Air Station)	33·0	..	34·2	27	25·6	..	22·8	7	4·1	82·7	..	28·5	7	6	..	9·6	6·7	..	10	0	0	21	0	0	0	0	0	2	0		
Alleppey . .	33·0	..	33·9	15	25·7	..	23·1	20	9·2	156·4	..	35·8	20	9	..	15·2	11·6	..	15	0	0	16	0	0	0	0	0	0	0		
Punalur . .	35·2	..	36·7	19	23·7	..	21·3	22	108·3	217·0	..	40·2	26	13	..	4·4	2·9	..	13	0	0	0	0	0	0	0	0	0	0		
Trivandrum . .	33·0	+0·7	35·0	8	25·0	-0·1	22·8	11	41·1	144·5	+28·9	37·6	11	8	+1·1	8·5	6·4	-0·5	17	0	0	23	0	0	0	0	0	0	0		
Trivandrum (Aero-drome)	33·0	..	34·2	11	25·2	..	32·2	28	..	93·6	..	26·4	28	6	..	..	7·4	..	10	0	0	22	0	0	0	0	0	0	0
Arabian Sea Islands																															
Minicoy*																															
Amini Divi* Hill Stations excluding Kashmir Walong (R.)																															
Kohima . .	24·1	..	27·8	27	15·7	..	10·6	22	32·0	93·4	..	20·1	4	7	..	..	..	..	17	0	0	0	0	0	0	0	0	0	0
Aijal . .	28·5	..	32·1	27	19·1	..	13·5	11	15·5	38·8	..	27·4	23	5	..	12·8	12·6	..	9	0	0	3	0	0	0	0	0	0	0		
Shillong . .	24·2	+0·8	27·3	10	14·0	+0·1	10·8	19	48·4	139·7	+10·2	25·9	22	11	+1·8	5·7	5·4	-3·0	17	0	0	14	0	0	0	0	0	0	0		
Cherrapunji . .	22·9	+0·5	25·6	26	15·1	+0·2	11·9	22	165·5	782·0	+115·8	166·6	12	18	+2·0	11·2	11·1	+0·5	20	0	9	0	0	0	0	0	0	0			
Mawsynram . .	..	..	..	..	..	..	..	..	..	753·7	..	99·3	11	18	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..
Darjiling (Raj Bhawan)	18·9	+1·6	21·7	15	11·6	+1·3	8·3	13	108·3	200·8	+95·6	45·4	27	8	+0·5	4·8	4·5	+1·0	11	0	0	10	14	3	0	0	0	0	0		
Kalimpong . .	20·4	-3·0	24·7	24	13·4	-1·9	9·1	3	55·9	129·5	+60·2	30·5	27·28	7	+1·2	6·6	5·0	-7·7	7	0	0	0	0	0	0	0	0	0	0		
Katmandu . .	30·7	+1·9	34·2	16	12·4	+1·0	6·8	1	22·1	34·3	+8·6	16·5	19	4	+0·8	4·1	2·2	+0·1	6	0	0	9	0	0	0	0	0	0	0		
Mukteswar (Kumaon)	22·7	+2·8	26·3	24	12·2	+2·0	6·3	3	24·1	33·0	-2·8	25·1	21	2	-1·3	16·3	14·9	+4·1	4	0	1	10	0	0	0	0	0	0	0		
Nainital . .	22·4	..	25·1	17·28	12·9	..	8·9	1·4	0	19·3	..	12·2	29	2	..	9·2	7·5	..	3	0	0	0	1	0	0	0	0	0	0		
Tapoban . .	24·6	..	30·6	24	..	..	..	..	..	7·8	..	4·0	3	1	..	..	..	..	3	0	0	0	0	0	0	0	0	0	0
Badrinath									Closed during winter months																						
Lokpal (R) . .																															
Jamuna Chetty	19·1	..	19·1	3	1	1	
Mussooree . .	23·7	+3·0	27·2	23	14·4	+2·8	8·1	3	0·8	5·9	-27·9	4·6	29	1	-2·8	10·8	7·5	-0·9	2	0	2	7	0	0	0	0	0	0	0		
Kharsali	75·4	..	31·7	3	5	
Rana	22·9	..	21·6	3	1	2	
Simla . .	22·1	+3·3	27·2	24·27	13·4	+3·1	7·2	3	19·8	22·1	-23·9	13·5	3	2	-2·1	5·7	4·7	+1·9	5	0	2	7	0	0	0	0	0	0	0		
Dharampore	9·0	-26·1	4·0	3	1	-1·7	
Keylang	75·7	-8·9	47·2	2	4	-2·4	8	
Gondla	116·9	..	72·4	2	6	10	
Kothi	117·5	..	52·8	2	9
Koksar	..	..	..	..	..	..	..	..	..	166·1	..	47·	2	9	..														

Division and station	Air temperature in °C									Rainfall in millimetres						No. of rainy days (2-5 mm. or more)		Wind speed, kms. per hour		Weather phenomena—No. of days with									
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall	Line squall	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
Sikkim																													
Thangu (R)	191.5	..	71.6	30	13
Chungthang	
Lachen*
Tibet																													
Yatung (Chumbi)	17.5	+3.6	20.6	21	5.9	+4.3	0.6	1.5	..	158.1	+58.8	17.8	11	16	+5.6	16	0	0	0	0	0	0	0	0	
Lhasa	16.5	..	23.7	27	2.7	..	-2.3	6	..	0	..	0	..	0	6.0	0	0	0	1	0	2	0	0	0	
Ceylon																													
Colombo	31.4	-0.2	32.9	23	24.3	-0.1	23.2	21.28	38.8	198.9	-40.6	49.5	4	10	-0.9	17	0	0	0	12	0	0	0	0	
Trincomalee	32.6	-0.6	34.9	12	26.2	+0.9	22.6	13	2.8	90.5	+39.2	48.8	13	4	+0.7	5	0	0	8	0	0	0	0	0	
Batticaloa	31.8	..	34.5	23	25.5	..	23.4	13	0	40.8	..	21.8	3	4	4	0	0	7	0	0	0	0	0	
Hambantota	31.9	+0.9	33.2	8	24.9	+0.4	22.2	17	13.6	106.4	+10.6	22.1	21	8	+1.8	10	0	0	0	3	0	0	0	0	
Mannar	33.2	..	34.1	14	25.7	..	24.2	1	89.3	111.8	..	32.5	28	9	10	0	0	0	0	0	0	0	0	
Hydrometeorological Observatories																													
Damodar Catchment																													
Bokaro	39.4	..	42.2	18	23.3	..	19.0	7	9.4	72.6	..	40.6	28	4	..	11.0	8.8	..	6	0	0	5	0	0	0	0	0		
Hazaribagh	32.9	..	35.3	23	21.3	..	16.7	10	0.5	31.0	..	14.5	26	3	..	4.8	2.4	..	5	0	0	0	0	0	0	0	0		
Tilaiya	38.1	..	40.7	18	25.1	..	21.0	6	19.6	19.9	..	17.8	28	1	..	13.9	9.7	..	5	0	0	9	0	1	0	0	1		
Ramgarh	40.7	..	43.3	18	22.8	..	15.7	5	17.0	22.8	..	14.7	30	2	..	7.9	4.7	..	2	0	0	9	0	2	0	0	0		
Panchet Hills	40.0	..	43.8	18	24.9	..	21.9	6	0.5	12.9	..	5.6	26	2	..	13.4	10.3	..	5	0	0	6	0	1	0	0	0		
Durgapur	40.2	..	42.8	9	25.9	..	21.3	5	0	6.6	..	3.1	30	1	..	14.5	12.5	..	4	0	0	0	0	0	0	0	0		
Asansol	..	..	..	..	..	..	..	..	..	..	..	1.6	28	0	..	..	..	..	4	..	..	..	..	..	..	..	..
Dhanwar	..	..	..	..	..	..	..	..	..	..	..	5.8	28	1	..	..	..	..	1	..	..	..	..	..	..	..	..
Dumri	..	..	..	..	..	..	..	..	..	..	..	18.9	..	6.1	28	4	..	..	4	..	..	..	..	..	..	..	..
Bishungharh	..	..	..	..	..	..	..	..	..	..	..	32.0	..	18.0	27	4	..	..	5	..	..	..	..	..	..	..	..
Chandwa	..	..	..	..	..	..	..	..	..	..	..	10.9	..	6.6	29	2	..	..	3	..	..	..	..	..	..	..	..
Maithon	..	..	..	..	..	..	..	..	..	..	..	12.5	..	8.6	28	2	..	..	4	..	..	..	..	..	..	..	..
Mahanadi Catchment																													
Baramul	40.0	..	43.3	24	23.6	..	19.8	5	12.7	35.6	..	28.0	27	2	..	3.0	1.6	..	6	0	0	9	0	0	0	0	0		
Hirakud	39.6	..	42.8	24	26.3	..	23.4	5,12	0	5.1	..	2.8	27	1	..	5.4	4.5	..	2	0	0	6	0	0	0	0	0		
Khijrawan†	39.2	..	42.3	24	24.1	..	20.9	23	..	7.8	..	..	..	..	..	..	..	..	0	0	1	0	0	0	0	0	0
Sonepur	40.0	..	43.8	24	25.9	..	23.3	6	..	19.3	..	19.3	27	1	..	6.0	..	1	..	..	..	..	..	..	..	..	..
Ginabahar	39.7	..	42.0	12	21.2	..	15.6	7	..	17.8	..	16.5	27	1	..	..	..	2	..	..	..	..	..	..	..	..	..
Bhimkund	38.5	..	41.5	18	22.7	..	19.3	20	32.2	82.2	..	44.7	20	32	..	6.7	4.5	..	9	0	1	10	0	3	0	0	1		
Nerbada Catchment																													
Punasa	41.7	..	47.5	25	24.5	..	19.5	4	0	0	..	0	..	0	..	..	..	..	0	0	0	1	0	3	0	0	0
Bogra Tawa	41.5	..	45.3	25	25.0	..	17.3	4	0.6	0.6	..	0.3	12.27	0	..	9.4	6.4	..	2	0	0	0	0	0	0	0	0		
Thikri	41.6	..	47.4	25	26.0	..	19.8	4	..	2.5	..	2.5	30	1	..	..	..	..	1	0	0	0	0	0	0	0	0
Sabarmati Catchment																													
Jhadol	37.6	..	43.4	26	19.7	..	14.7	6	..	0	..	0	..	0	..	..	..	..	0	..	..	..	..	..	..	..	..
Sainwara (Surajgarh)	..	..	..	..	..	..	..	..	..	0	..	0	..	0	..	..	..	..	0	..	..	..	..	..	..	..	..
Bikrani	..	..	..	..	..	..	..	..	..	0	..	0	..	0	..	..	..	..	0	..	..	..	..	..	..	..	..
Tarpal	..	..	..	..	..	..	..	..	..	2.5	..	2.5	14	1	..	..	..	..	1	..	..	..	..	..	..	..	..
Kotra Cantonment	..	..	..	..	..	..	..	..	..	0	..	0	..	0	..	..	..	..	0	..	..	..	..	..	..	..	..
Dharoi	40.1	..	46.9	27,28	24.5	..	19.1	5	2.5	2.5	..	2.5	15	1	..	..	..	..	1	..	..	..	..	..	..	..	..
Ganga Catchment																													
Mukhim	24.3	..	28.2	28	13.1	..	4.6	12	12.7	27.7	..	16.8	2	2	..	..	..	2	..	..	..	..	..	..	..	..	..
Tehrī†	35.0	..	..	..	18.3	..	..	..	..	7.9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

*Data not reliable.

† Observations for 21 days.

(R) Register not received.

‡ Observations for 22 days.

176 TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—APRIL 1958 (CHAITRA 11—VAISAKHA 10, 1880 SAKA)

Division and station		Air temperature in °C							Rainfall in millimetres							No. of rainy days (2·5 mm. or more)		Wind speed, kms. per hour		Weather phenomena—No. of days with										
		Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29		
Hydrometeorological Observatories—(Contd.)																														
Gandak Catchment																														
Gorkha . .	30·3	..	32·8	24	19·5	..	16·1	24	15·5	59·5	..	30·7	30	4	..	..	..	..	9	..	..	..	..	..	..	..	..	..	..
Pokhara . .	30·9	..	33·9	14, 16	18·0	..	15·4	10	88·0	207·1	..	122·2	28	6	..	..	..	..	9	..	..	..	..	..	..	..	..	..	..
Nawakot . .	32·5	..	35·6	14	20·1	(b)	16·7	1	10·4	60·4	..	24·4	27	6	..	..	..	..	6	..	..	..	..	..	..	..	..	..	..
Jomosom . .	20·7	..	25·4	24	5·9	..	1·4	12	4·4	10·4	..	4·1	29	2	..	..	..	..	5	..	..	..	..	..	..	..	..	..	..
Timure . .	25·7	..	27·7	14, 25, 27	14·1	..	10·2	1	4·6	16·9	..	9·9	29	3	..	..	..	..	4	..	..	..	..	..	..	..	..	..	..
Gogra Catchment (Trans Himalayan Region)																														
Dailekh . .	(c)	28·2	..	30·7	18	0	39·6	..	25·4	27	2	4
Gogra Catchment																														
Dandeldhura . .	23·8	..	28·5	24	14·2	..	10·8	19	1·8	27·5	..	10·4	27	4	..	..	..	..	5	..	..	..	..	..	..	..	..	..	..
Munsiyari*	.																													
Sallyana . .	29·1	..	31·1	5 days	..	..	..	..	19·8	44·5	..	19·8	28	3	..	..	..	..	4	..	..	..	..	..	..	..	..	..	..
Butwal . .	37·3	..	40·0	12	25·0	..	22·1	5	0	32·0	..	17·8	29	3	..	..	..	..	3	..	..	..	..	..	..	..	..	..	..
Bagmati Catchment																														
Katmandu . .	29·2	..	31·5	17	12·3	..	7·8	4	24·9	37·9	..	18·8	19	4	..	4·2	2·2	..	7	0	2	11	0	0	0	0	0	0	0	
Kosi Catchment																														
Chautara . .	28·8	..	30·9	15	16·9	..	10·7	1	8·1	53·9	..	24·9	27	5	..	..	..	..	5	..	..	..	..	..	..	..	..	..	..
Okhaldunga (R)	.																													
Barahkshetra . .	34·8	..	39·3	17	23·3	..	19·4	19	36·6	62·0	..	26·1	19	5	..	14·7	9·1	..	5	0	2	8	0	0	0	3	0	0		
Angbung . .	28·2	..	31·2	12	16·8	..	13·3	19	..	152·7	..	41·7	15	12	..	..	..	..	13	..	..	..	..	..	..	..	..	..	..
Taplejung . .	23·1	..	25·0	25	13·3	..	9·7	19	105·4	180·8	..	30·5	27	13	..	..	..	..	21	0	1	16	2	0	0	0	0	0	
Taplethok . .	27·7	..	29·3	26	15·6	..	13·0	3	..	177·7	..	37·6	13	15	..	..	..	..	18	..	..	..	..	..	..	..	..	..	..
Wallungchung Gola (R)	.																													
Bhojpur . .	(c)	24·4	..	27·4	12	16·0	..	11·8	19	27·0	60·6	..	26·7	27	5	..	..	..	8	..	..	..	..	..	..	..	..	..	..
Chainpur . .	28·7	..	31·7	14	17·6	..	13·7	19	23·4	81·5	..	19·6	19	7	..	..	..	..	8	..	..	..	..	..	..	..	..	..	..
Tista Catchment																														
Gangtok . .	21·3	..	24·4	16	12·1	..	7·5	11	83·7	378·3	..	68·6	21	16	..	5·7	6·0	..	22	0	4	17	7	0	0	0	0	0		
Geyzing . .	25·3	..	29·1	17	14·1	..	9·9	5	89·9	179·8	..	92·5	27	12	..	..	..	..	16	..	..	..	..	..	..	..	..	..	..

(b) Mean of 29 days.

(c) Mean of 23 days.

(e) Mean of 26 days.

* Data not available

(R) Register not received.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—APRIL, 1958 (CHAITRA 11—VASSAKHA 10, 1886 SAKA)

Division and station	Hour of observation I.S.T	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas)			Wind speed (kms. p. h.)										No. of observations																									
			At mean sea level or height in gpm of nearest standard isobaric level			At station level						Dry bulb			Wet bulb			Dew point			Mean amount			Departure from normal			62 or more		20 to 61		1 to 19		N		NE		E		SE		S		SW		W		NW		Calm	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28																						
Bay Islands																																																		
	Maya Bandar . .	0830	23	1012.0	1009.4	..	30.1	25.8	24.6	30.1	69	..	3.0	..	3.6	0	0	12	1	8	0	0	0	1	0	2	18	0																						
Long Island		1730	"	1008.7	1006.1	..	29.4	25.9	24.3	30.3	74	..	3.5	..	5.3	0	0	21	2	17	0	0	0	0	2	0	9	0																						
	Long Island . .	0830	33	1012.1	1008.3	..	30.2	26.6	25.1	31.9	74	..	3.0	..	0.3	0	0	3	0	0	0	1	0	2	0	0	0	27	0																					
Port Blair		1730	"	1008.6	1005.2	..	30.1	26.8	25.4	32.5	76	..	4.6	..	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0																					
	0530	79	1010.3	1001.3	..	25.7	24.5	24.1	30.0	91	..	2.4	..	2.6	0	0	13	0	2	4	0	0	2	4	1	17	0																							
	0830	"	1011.8	1003.1	+1.2	32.1	26.2	22.7	29.4	61	—12	2.5	-1.2	7.9	0	0	29	3	11	11	2	0	0	2	0	1	0	0																						
	1130	"	1010.5	1001.8	..	32.8	26.5	23.8	29.3	59	..	2.6	..	11.0	0	0	30	0	7	19	4	0	0	0	0	0	0	0																						
	1730	"	1008.8	1000.0	..	29.3	25.5	23.8	29.4	72	..	3.6	..	7.4	0	0	27	0	9	14	1	0	0	2	0	3	1																							
Car Nicobar		2330	"	1010.1	1001.3	..	27.3	25.1	24.1	30.1	83	..	2.7	..	5.8	0	0	22	1	5	6	0	1	1	2	5	8	1																						
	0830	10	1011.5	1010.3	..	31.1	26.2	24.1	30.2	66	..	3.6	..	5.3	0	0	28	1	8	7	7	0	1	0	0	2	4	0																						
Nancowry		1730	"	1008.7	1007.5	..	29.6	25.9	24.2	30.9	74	..	3.4	..	2.8	0	0	21	1	12	5	0	0	1	0	1	9	1																						
	0830	26	1011.7	1008.8	..	30.2	26.7	25.3	31.9	75	..	4.2	..	2.7	0	0	10	0	2	0	1	0	0	1	0	1	27	0																						
Kondul		1730	"	1008.5	1005.6	..	29.7	26.4	25.0	31.7	76	..	4.2	..	0.8	0	0	3	0	1	0	0	0	1	0	1	0	10	0																					
	0830	8	1011.4	1010.5	..	30.1	26.8	25.4	32.4	76	..	3.8	..	4.1	0	0	20	2	9	8	1	0	0	0	0	0	9	0																						
Assam (Including Manipur, Tripura)		1730	"	1008.3	1007.4	..	29.2	26.5	25.4	32.3	80	..	4.0	..	4.2	0	0	21	1	11	8	0	1	0	0	0	9	0																						
	0830	157	1011.8	994.0	..	24.2	20.1	17.6	20.1	69	..	5.2	..	11.4	0	5	21	9	0	3	0	0	0	1	13	4	0																							
Digboi		1730	"	1008.2	990.4	..	24.2	21.1	19.4	22.6	76	..	5.5	..	4.1	0	1	16	2	3	0	0	0	1	11	13	0																							
	0830	..	..	..	..	..	23.2	20.8	19.7	22.6	77	..	5.2	..	3.0	0	0	30	11	2	5	1	4	1	3	3	0	0																	
Dibrugarh		1730	"	..	..	..	27.4	22.3	19.6	22.7	63	..	6.0	..	3.0	0	0	30	15	2	4	0	1	1	5	2	0																				
	0830	106	1011.8	999.7	+1.0	24.8	21.3	19.2	22.5	73	—6	4.9	-0.2	3.4	0	0	25	6	4	11	0	1	2	0	1	5	0																							
Dibrugarh (Mohanbari Aerodrome)		1730	"	1007.5	995.5	..	25.9	22.2	20.2	24.2	72	..	5.6	..	1.7	0	0	11	1	5	5	0	0	0	0	0	19	0																						
	0230	111	1009.2	996.5	..	20.7	19.5	18.1	22.0	89	..	5.8	..	2.1	0	0	11	2	8	1	0	0	0	0	0	0	19	0																						
	0530	"	1010.3	997.5	..	20.3	19.4	18.7	21.9	91	..	6.1	..	3.1	0	0	13	1	8	2	1	1	0	0	0	0	17	0																						
	0830	"	1012.3	999.4	..	24.4	20.7	18.6	22.0	69	..	5.5	..	5.3	0	0	24	1	13	6	1	0	1	1	1	6	0																							
	1130	"	1010.8	998.3	..	27.2	22.3	18.3	22.7	60	..	5.3	..	5.3	0	0	24	3	8	5	3	1	1	3	0	6	0																							
	1730	"	1007.6	995.5	..	26.9	21.6	19.7	22.0	66	..	5.7	..	4.1	0	0	17	3	10	3	0	0	0	0	0	1	13	0																						
	2330	"	1009.6	996.9	..	21.7	20.3	19.5	22.7	87	..	5.7	..	2.4	0	0	8	1	5	1	0	0	1	0	0	1	22	0																						
	0830	102	1011.6	999.9	..	24.0	21.0	19.3	22.4	77	..	5.9	..	6.3	0	0	30	2	8	9	2	1	3	4	1	0	0																							
North Lakhimpur		1130	"	1010.6	999.0	..	27.4	22.1	19.2	22.4	63	..	5.3	..	6.8	0	0	29	2	6	8	4	2	1	5	1	1	0	6	0																				
	1730	"	1007.4	995.8	..	25.6	22.2	20.4	24.1	74	..	6.3	..	5.3	0	0	24	7	4	7	3	1	1	1	0	6	0																							
	0830	97	1012.8	1001.8	+2.4	25.2	21.6	19.8	23.3	74	—7	5.6	-0.4	4.5	0	0	28	4	12	6	2	2	1	0	1	2	0																							
Jorhat		1730	"	1008.0	997.3	..	26.7	22.5	20.1	23.9	65	..	5.8	..	4.1	0	0	22	9	9	0	0	1	0	0	3	8	0																						
	0530	90	1009.7	999.4	..	20.3	20.1	19.8	23.3	97	..	5.2	..	3.7	0	2	7	4	1	0	0																													

TABLE III.—SUMMARY OF OBSERVATIONS AT FIXED HOURS—APRIL, 1958 (CHAITRA 11—VAISAKHA 10, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs			Relative humidity %		Cloud amount (Oktas)		Wind speed (kms. p.h.)			No. of observations													
			At mean sea level or height in g.p.m. of nearest standard isobaric level			At station level			Departure from normal			Departure from normal		Mean amount		Departure from normal			Mean wind speed kms. per hour			Wind direction										
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	Calm	Variable		
Assam (Including Manipur, Tripura) —Contd.																																
Gauhati . .	0830	55	1011.5	1005.1	+1.6	24.8	21.7	20.1	23.4	77	+4	5.2	+1.4	2.9	0	0	28	5	15	5	0	1	2	0	0	2	0					
	1730	"	1006.4	1000.1	..	8.6	23.3	20.5	24.4	61	..	4.8	..	1.7	0	0	16	0	9	6	0	0	1	0	0	0	14	0				
Gauhati (Bhorjor Aerodrome).	0230	54	1008.3	1002.5	..	21.9	20.6	19.8	23.1	88	..	4.5	..	4.8	0	1	16	2	7	1	1	2	3	0	0	13	0					
	0530	"	1009.3	1003.5	..	21.4	20.2	19.5	22.8	89	..	5.3	..	4.0	0	0	19	0	8	6	1	1	2	1	0	11	0					
	0830	"	1011.3	1005.6	..	25.2	21.7	19.9	22.5	76	..	5.2	..	7.7	0	0	28	4	19	2	0	0	0	2	1	2	0					
	1130	"	1010.2	1004.5	..	28.0	22.7	19.7	23.3	64	..	4.6	..	10.9	0	1	29	9	16	2	0	1	1	0	0	0	0					
	1730	"	1006.5	1000.8	..	28.3	23.6	19.7	25.3	61	..	4.7	..	4.7	0	0	22	1	16	1	1	0	0	0	3	8	0					
Rangiya . .	0830	..	..	..	..	24.5	21.5	19.3	23.2	76	..	4.3	..	11.3	0	1	26	1	6	12	6	0	1	1	0	2	0	
Goalpara . .	0830	38	1010.6	1006.4	..	23.8	21.6	20.4	24.0	82	..	4.7	..	5.2	0	0	27	0	14	5	4	1	1	1	3	0						
	1730	"	1006.4	1001.7	..	28.8	24.6	22.1	27.6	69	..	3.6	..	3.8	0	0	28	2	19	2	3	0	0	1	1	2	0					
Dhubri . .	0830	35	1011.7	1008.1	+2.7	25.1	22.8	21.7	25.8	82	+11	2.8	-1.0	3.8	0	0	26	2	18	6	0	0	0	0	0	4	0					
	1730	"	1006.7	1002.8	..	26.9	24.4	23.1	28.5	81	..	1.9	..	3.3	0	0	18	1	11	2	1	0	3	0	0	12	0					
Dhubri (Rupsi Aerodrome).	0530	..	..	..	..	22.1	20.4	19.5	22.7	86	..	4.0	..	5.3	0	0	27	3	6	12	4	0	0	1	1	3	0	
	0830	..	..	..	..	25.2	21.8	19.9	23.3	74	..	5.0	..	7.9	0	0	30	0	4	18	7	0	0	1	0	0	0	
	1130	..	..	..	..	28.6	23.7	20.2	25.4	63	..	4.2	..	9.2	0	1	28	1	6	11	9	1	0	1	0	1	0	
	1730	..	..	..	..	28.0	23.2	20.4	24.6	64	..	3.6	..	5.6	0	0	25	2	3	10	9	1	0	0	0	5	0	
Tura . .	0830	370	1011.4	970.0	..	25.6	25.0	24.8	31.2	94	..	4.1	..	4.5	0	1	25	2	3	6	3	6	3	1	2	4	0					
	1730	"	1007.0	966.3	..	30.0	29.4	29.0	40.5	95	..	4.6	..	5.4	0	0	29	0	3	1	6	6	6	10	2	1	1	0				
Agartala . .	0230	16	1007.4	1005.6	..	24.9	23.6	23.2	28.0	89	..	3.5	..	8.1	0	1	25	0	1	5	11	8	1	0	0	4	0					
	0530	"	1008.5	1006.7	..	24.3	23.3	22.8	27.9	90	..	3.9	..	4.1	0	0	22	2	0	3	10	5	1	0	1	8	0					
	0830	"	1010.2	1008.4	..	29.1	25.3	24.0	29.3	72	..	3.9	..	9.8	0	1	27	1	0	0	7	15	3	1	1	2	0					
	1130	"	1009.2	1007.4	..	33.2	25.5	21.7	26.4	52	..	3.7	..	8.8	0	0	28	1	1	1	6	14	3	2	0	2	0					
	1730	"	1005.7	1003.9	..	30.9	24.4	21.1	25.4	58	..	4.1	..	9.5	0	2	22	3	0	0	3	14	1	3	0	6	0					
	2330	"	1007.8	1006.0	..	26.1	24.2	23.3	28.6	85	..	2.9	..	9.8	0	3	20	1	1	1	5	14	1	0	0	7	0					
Silchar . .	0830	29	1011.9	1008.6	+1.1	26.2	22.3	20.3	23.7	71	-4	3.9	-0.3	0.5	0	0	4	0	3	0	0	0	0	0	1	26	0					
	1730	"	1006.6	1003.3	..	30.5	24.0	20.6	24.5	57	..	3.0	..	0.7	0	0	6	1	1	0	0	0	0	1	3	24	0					
Silchar (Kumbhigram Aerodrome).	0530	97	1009.1	997.9	..	21.0	19.8	19.0	22.2	88	..	4.1	..	8.2	0	3	26	0	2	20	1	2	0	3	1	1	0					
	0830	"	1010.6	999.5	..	25.1	22.0	20.2	24.0	75	..	3.9	..	8.8	0	1	29	0	1	19	6	1	1	0	0	0	0					
	1130	"	1009.1	998.3	..	29.6	23.2	19.7	23.2	57	..	2.8	..	7.7	0	0	29	0	1	8	2	5	4	6	3	1	0					
	1730	"	1005.5	994.7	..	28.6	23.6	20.1	25.1	65	..	3.2	..	4.7	0	0	24	1	0	5	1	0	1	10	6	6	0					
Imphal . .	0530	801	1012.7	923.0	..	16.7	15.6	14.7	16.9	88	..	4.2	..	2.1	0	0	15	2	1	0	2	3	4	3	0	15	0					
	0830	"	1012.3	924.6	..	23.3	18.1	14.9	16.9	60	..	3.4	..	4.3	0	0	18	1	0	5	2	3	4	1	2	12	0					
	1130	"	1009.2	923.0	..	27.9	19.0	13.3	15.5	42	..	3.5	..	16.8	0	11	18	2	0	0	0	5	8	11	3	1	0					
	1730	"	1006.6	920.3	..	26.8	18.2	12.5	14.6	44	..	3.8	..	8.1	0	1	26	0	2	0	0	1	7	11	6	3	0					
	2330	"	1010.5	922.4	..	20.5	17.5	15.5	17.8	74	..	3.1	..	5.8	0	1	19	3	0	1	0	1	8	4	3	10	0					
Haflong . .	0830	682	1011.6	936.0	..	22.0	18.8	16.6	18.7	73	..	3.9	..	9.4	0	3	27	2	2	1	1	9	15	0	0	0	0	0				
	1730	"	1006.9	932.4	..	25.4	20.0	16.9	19.3	61	..	4.0	..	11.5	0	5	25	3	1	0	1	5	20	0	0	0	0	0				
Lumding . .	0830	149	1011.8	994.9	..	25.8	21.6	19.4	22.6	68	-3	3.9	..	5.2	0	0	22	2	3	9	4	0	1	1	2	8	0					
	1730	"	1006.4	989.9	..	29.7	22.8	19.3	22.7	55	..	4.6	..	5.7	0	0	23	2	1	5	2	3	4	2	4	7	0					
Sub-Himalayan West Bengal.																																
Cooch-Bhar (C.W.O.)	0830	43	1010.9	1005.9	..	25.5	21.7	19.4	24.0																							

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—APRIL, 1958 (CHAITRA 11—VAISAKHA 10, 1880 SAKA).

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars				Mean temperature in °C				Vapour pressure in mb.				Cloud amount (Oktas)				No. of observations											
			At mean sea level or height in g.m. or nearest standard isobaric level		At station level		Departure from normal		Dry bulb		Wet bulb		Dew point		Relative humidity %		Departure from normal		Mean amount		Mean wind speed, kms. per hour		Wind speed (kms. p. h.)		Wind direction					
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	Calm	Variable
Gangetic West Bengal																														
Dum Dum		0230	6	1006.6	1005.9	..	26.0	24.7	24.1	30.0	89	..	2.1	..	6.7	0	1	24	2	0	0	4	14	5	0	0	5	0		
		0530	"	1007.4	1006.7	..	25.4	24.3	23.7	29.4	91	..	4.6	..	6.3	0	0	25	0	1	0	6	13	4	1	0	5	0		
		0830	"	1009.2	1008.5	..	29.8	26.5	25.1	31.9	77	..	3.5	..	10.8	0	4	25	0	0	0	3	15	7	3	1	1	2	0	
		1130	"	1008.6	1007.9	..	34.5	27.5	24.5	31.1	58	..	2.7	..	11.9	0	0	28	1	0	0	1	19	5	1	1	2	0		
		1730	"	1005.0	1004.3	..	33.2	26.4	23.2	29.3	58	..	3.3	..	13.2	0	3	25	1	0	0	0	19	8	0	0	2	0		
		2330	"	1007.4	1006.7	..	27.0	25.3	24.6	30.9	87	..	2.4	..	11.2	0	2	28	1	0	0	2	20	6	1	0	0	0		
Calcutta		0830	6	1009.1	1008.4	+0.7	30.5	25.5	23.1	28.6	66	-7	3.1	+0.1	9.2	0	0	29	0	0	0	5	7	13	2	1	0	0		
		1130	"	1008.4	1007.7	..	35.2	26.2	21.6	27.0	48	..	2.7	..	9.8	0	0	29	0	0	0	1	5	4	15	2	2	1	0	
		1730	"	1005.0	1004.3	..	33.0	25.4	21.6	26.5	53	..	2.7	..	8.7	0	0	25	0	0	0	0	5	11	8	1	0	5	0	
Barrackpore		0530	7	1007.3	1006.5	..	25.3	24.2	23.7	29.0	91	..	3.1	..	7.5	0	0	21	0	0	0	1	2	8	10	0	0	9	0	
		0830	"	1009.2	1008.5	..	30.3	26.0	24.1	29.8	71	..	2.9	..	13.7	0	0	30	1	0	0	1	3	5	18	1	1	0	0	
		1130	"	1008.4	1007.7	..	35.1	26.5	22.2	27.5	50	..	2.5	..	12.8	0	2	28	1	0	0	0	3	10	12	2	2	0	0	
		1730	"	1005.2	1004.5	..	33.1	25.1	21.3	25.6	54	..	3.3	..	14.7	0	1	29	2	0	1	2	15	7	2	1	0	0		
		2330	"	1007.3	1006.6	..	27.0	24.8	23.7	29.5	83	..	2.1	..	12.1	0	3	26	0	0	0	0	4	13	9	2	1	1	0	
Saugor Island		0830	3	1008.8	1008.5	+0.2	29.5	27.0	25.9	33.6	81	+7	4.1	-0.3	31.5	0	27	3	1	0	0	0	3	15	11	0	0	1	0	
Sandheads		1730	"	1005.7	1005.4	..	29.7	27.3	26.5	34.1	83	..	3.8	..	33.0	0	28	1	0	0	0	0	4	25	0	0	0	0		
		0530	10	1008.0	1006.9	..	28.0	26.4	25.8	32.9	88	..	4.6	..	..	0	18	12	0	1	0	0	0	5	22	1	1	0	0
		0830	"	1010.0	1008.9	+0.5	28.6	26.6	25.8	33.4	85	+7	3.7	+0.6	..	0	15	15	0	0	0	1	0	5	23	0	0	1	0	
		1130	"	1009.5	1008.4	..	29.2	26.8	25.9	33.1	82	..	3.3	..	..	0	16	13	0	0	0	1	1	4	23	0	0	1	0
		1730	"	1006.2	1005.1	..	28.9	26.9	26.1	34.1	85	..	3.7	..	..	0	22	8	0	0	0	0	0	17	13	0	0	0	0
Comai		0830	11	1009.1	1007.9	..	30.9	26.1	23.9	30.2	69	..	3.2	..	11.7	0	1	28	1	0	0	0	1	6	20	0	0	1	0	
M. dnapore		1730	"	1005.5	1004.3	..	29.6	26.9	25.6	33.4	79	..	3.0	..	14.8	0	5	25	0	0	0	0	1	11	13	0	0	4	0	
		0830	45	1008.9	1003.9	+0.8	31.9	24.5	20.4	24.5	54	-10	2.1	0	5.5	0	1	25	2	0	0	0	11	13	0	0	3	2		
		1730	"	1004.2	999.2	..	35.6	24.4	17.1	21.6	37	..	2.7	..	8.5	0	0	28	0	1	1	1	6	16	0	0	3	5		
Purulia		0830	255	1008.9	980.9	..	31.0	21.2	13.7	16.9	41	..	2.6	..	3.1	0	0	25	3	2	0	0	9	0	3	5	3	5		
		1730	"	1003.6	976.4	..	35.9	21.9	11.1	14.9	29	..	4.3	..	5.5	0	2	24	0	3	0	0	6	1	2	5	9	4		
Burdwan		0830	32	1009.8	1006.5	+2.1	30.6	26.0	24.2	30.5	73	+5	3.2	+0.3	2.3	0	0	17	0	0	1	2	2	10	1	1	13	0		
		1730	"	1004.2	1000.6	..	35.2	28.3	24.7	32.7	59	..	2.2	..	1.6	0	0	12	0	0	0	0	0	4	8	0	0	18	0	
Krishnagar		0830	15	1009.2	1007.6	+1.1	31.3	25.0	22.5	27.5	64	-1	1.9	-0.9	4.6	0	0	28	0	0	0	1	2	19	0	5	1	2	0	
		1730	"	1004.9	1003.3	..	35.2	24.0	17.9	20.0	39	..	1.8	..	4.1	0	0	28	0	0	1	1	7	4	1	2	2	12	0	
Aasol		0230	126	1005.8	991.6	..	27.2	22.7	20.1	24.1	67	..	1.4	..	4.8	0	0	18	0	1	1	1	7	4	1	2	3	15	0	
		0530	"	1006.9	992.6	..	25.7	22.4	20.3	24.4	73	..	2.8	..	3.4	0	0	15	0	1	0	4	4	1	2	3	15	0		
		0830	"	1008.5	994.5	+0.9	31.2	24.8	21.6	26.1	59	+9	2.4	+0.2	4.7	0	0	20	1	1	2	5	1	0	8	2	10	0		
		1130	"	1007.4	993.5	..	36.9	26.3	21.1	25.7	44	..	2.2	..	7.2	0	1	25	1	0	1	6	5	5	6	2	4	0		
		1730	"	1003.4	989.8	..	36.8	25.7	19.8	23.9	40	..	3.4	..	7.0	0	1	20	1	0	3	1	3	2	6	5	9	0		
		2330	"	1006.4	992.3	..	28.9	23.5	20.3	24.2	64	..	1.6	..	6.0	0	1	19	1	1	0	7	6	1	2	2	10	0		
Suri		0830	77	1009.0	1000.3	..	30.4	22.5	16.9	20.5	50	..	2.7	..	11.0	0	3	24	1	2	5	4	6	6	2	1	3	0		
		1730	"	1004.3	995.9	..	36.9	21.6	8.4	13.4	24	..	4.0	..	12.6	0	5	23	2	2	5	5	2	2	5	5	2	0		
Berhampore		0830	19	1008.8	1006.6	+0.5	29.3	23.9	20.9	26.7	63	-1	3.3	+0.1	2.5	0	0	16	0	0	0	4	0	7	2	3	0	14	0	
		1730	"	1003.5	1001.4	..	35.5	23.6	15.5	19.3	35	..	1.6	..	1.0	0	0	6	0	0	0	4	0	1	0	1	0	24	0	
Orissa		Baripada	..	0830	54	1008.9	1902.8	..	30.1	24.8	22.3	27.0	64	..	1.6	..	3.2	0	0	25	1	2	0	3	5	7	1	4	5	2
		Balasore	..	0830	20	1008.8	1006.5	+0.4	31.5	25.3	22.3	27.4	61	-8	3.2	+0.6	16.5	0	11	18	1	1	0	1	15	0	0	1	0	0
		Chandbali	..	0830	6	1009.8	1009.1	+0.8	30.7	25.8	24.3	29.0	69	-3	2.3	-0.9	9.5	0	1	29	0	0	0	2	7	19	0	2	0	0
		Cuttack	(R)	0830	27																									
		Bhubaneswar	(R)																											

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—APRIL, 1958 (CHAITRA 11—VAISAKHA 10, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres.	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs.			Cloud amount (Octas)			Wind speed (kms. p. h.)			No. of observations											
			At station level			Departure from normal			Dry bulb			Wet bulb			Dew point			Relative humidity %			Departure from normal			Mean amount			Departure from normal		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
Orissa—Contd.																													
Gopalpur	0530	17	1008.1	1006.2	..	25.8	24.8	24.2	31.3	92	..	2.6	..	10.0	0	5	19	0	0	1	0	7	16	0	0	6	0	0	
	0830	"	1010.1	1008.2	+1.3	28.6	25.9	24.7	31.0	80	+2	2.7	+1.1	9.7	0	5	19	0	0	1	0	12	11	0	0	0	0	0	
	1130	"	1009.5	1007.6	..	30.6	26.9	25.3	32.7	73	..	2.1	..	16.8	0	9	21	0	0	0	2	16	12	0	0	0	1	0	
	1730	"	1006.5	1004.7	..	28.1	26.4	25.8	33.2	87	..	4.5	..	19.9	0	17	12	0	0	0	0	13	16	0	0	0	1	0	
	2330	"	1008.4	1006.5	..	26.7	25.6	25.1	32.0	91	..	2.4	..	18.6	0	13	17	0	0	0	0	10	20	0	0	0	0	0	
Koraput	0830	913	1519.4	911.6	..	22.9	19.0	16.7	19.2	69	..	3.0	0	0	30	0	0	0	0	4	21	4	1	0	0	0	
	1730	"	1509.1	908.9	..	28.5	20.0	14.9	16.9	46	..	5.1	..	..	0	0	30	6	0	4	6	4	1	2	7	0	0
Titilagarh	0830	211	1010.3	986.8	..	29.9	21.8	16.5	19.7	45	..	2.3	..	3.0	0	0	26	1	0	0	6	9	6	3	1	4	0		
Bolangir	0830	190	1009.7	988.7	..	31.9	21.9	15.3	18.3	38	..	..	..	10.6	0	2	28	0	1	0	9	1	17	0	1	0	1
	1730	"	1005.8	985.1	..	33.2	23.7	13.7	19.1	29	..	..	..	7.9	0	0	30	0	0	2	1	4	0	0	5	0	1
Angul	0830	139	1009.7	994.3	+1.3	29.8	22.9	19.1	22.3	52	-9	2.3	-0.5	2.8	0	0	23	2	6	2	5	4	3	0	1	7	0		
	1730	"	1004.5	989.6	..	35.6	22.3	13.4	16.0	33	..	5.2	..	6.8	0	0	29	3	3	0	6	5	7	0	5	1	0		
Keonjhar	0830	463	1006.1	955.8	..	30.3	21.5	16.3	19.0	45	..	2.3	..	5.9	0	0	29	3	7	2	2	3	3	6	3	1	0		
	1730	"	1001.3	951.9	..	34.5	22.6	13.9	18.6	38	..	3.8	..	7.2	0	0	30	3	0	2	6	6	3	3	7	0	0		
Sambalpur	0830	148	1009.5	993.0	+1.2	31.2	22.9	18.3	21.1	47	-1	2.5	+0.6	5.7	0	0	27	3	3	0	1	8	9	2	1	3	0		
	1730	"	1003.9	987.9	..	37.5	23.6	14.5	17.8	28	..	1.8	..	2.3	0	0	12	3	0	0	0	2	3	2	2	18	0		
Jharsuguda	0230	230	1006.5	980.8	..	26.8	20.0	15.7	9.6	51	..	2.2	..	3.9	0	0	18	3	0	3	2	4	1	2	3	12	0		
	0530	"	1007.5	981.6	..	24.9	19.7	16.3	18.5	60	..	2.8	..	2.9	0	0	20	7	1	0	2	6	1	1	2	10	0		
	0830	"	1009.1	983.7	..	30.6	21.3	15.3	18.1	40	..	2.5	..	4.1	0	0	22	0	0	2	0	9	3	5	3	8	0		
	1130	"	1007.7	982.7	..	36.8	22.4	12.9	15.3	25	..	1.9	..	7.0	0	0	29	1	0	0	2	5	4	14	3	1	0		
	1730	"	1003.2	978.4	..	36.8	21.6	10.6	13.3	23	..	2.5	..	5.9	0	0	27	0	0	2	1	10	5	8	1	3	0		
	2330	"	1006.8	981.3	..	29.2	20.6	14.8	17.3	43	..	2.4	..	6.4	0	0	22	2	1	2	0	11	0	3	3	8	0		
Chota Nagpur																													
Jamshedpur	0830	129	1008.9	994.5	+0.7	29.7	21.7	16.7	19.4	47	+1	1.9	+0.1	6.6	0	0	28	0	0	4	0	0	5	17	2	2	0		
	1730	"	1003.2	989.3	..	36.3	22.5	13.0	15.9	27	..	3.1	..	8.7	0	3	24	1	0	5	4	1	4	7	5	3	0		
Jamshedpur (P.B.O.)	0530	145	1007.2	990.8	..	25.3	20.3	17.1	19.8	62	..	3.0	..	2.6	0	0	16	0	2	3	0	1	2	3	5	14	0		
	0830	"	1008.9	992.7	..	30.0	21.4	15.6	18.5	44	..	2.4	..	3.6	0	0	25	0	0	2	3	10	7	3	5	0			
	1130	"	1007.4	991.6	..	36.8	22.6	12.9	16.0	27	..	2.5	..	5.7	0	0	30	0	1	2	3	3	9	8	4	0			
	1730	"	1003.5	987.8	..	36.4	21.8	10.1	14.0	24	..	4.3	..	7.7	0	2	24	0	0	3	6	1	3	5	8	4	0		
	2330	"	1006.7	990.6	..	29.2	21.3	16.0	19.2	48	..	2.3	..	3.8	0	0	21	0	4	3	1	3	5	3	2	9	0		
Chaitwan	0830	226	1008.6	983.6	+0.9	30.7	26.4	24.3	31.3	69	+16	2.9	+1.1	2.5	0	0	20	0	0	0	1	0	19	0	0	10	0		
	1730	"	1003.2	978.8	..	36.4	29.7	26.5	36.4	59	..	4.1	..	2.8	0	0	22	0	1	0	2	1	14	0	4	8	0		
Ranchi	0830	655	1007.9	986.6	+0.6	29.8	24.0	20.9	24.7	56	+10	1.3	-0.5	0.3	0	0	1	0	0	0	0	1	0	0	0	15	0		
+ +	1730	"	1003.6	983.9	(g)	32.5	25.6	23.3	28.6	52	..	2.2	..	0.7	0	0	4	0	0	1	0	0	1	2	0	12	0		
Ranchi (C.W.O.)	0530	652	1006.8	985.2	..	(g)	23.7	15.7	10.7	12.1	45	..	2.8	..	2.0	0	0	9	0	0	0	0	2	4	2	1	12	0	
	0830	"	1007.9	937.3	..	28.7	18.2	10.2	13.1	34	..	2.0	..	4.4	0	0	15	0	0	0	1	5	6	2	1	6	0		
	1130	"	1006.3	937.0	..	34.3	18.8	6.5	10.3	20	..	2.1	..	8.7	0	0	28	3	0	0	2	3	11	9	0	2	0		
	1730	"	1002.9	933.7	..	33.5	18.5	5.3	10.3	21	..	3.9	..	6.7	0	0	24	4	0	1	1	1	3	10	4	6	0		
Daltonganj	0830	221	1008.0	983.7	+0.5	31.9	21.3	14.3	16.9	36	-3	1.7	+0.4	1.4	0	0	9	0	0	2	3	0	1	2	1	21	0		
	1730	"	1002.8	979.2	..	36.5	22.4	13.3	15.4	27	..	4.3	..	4.3	0	0	28	4	2	2	2	0	1	2	15	2	0		
Hazaribagh	0830	611	1007.7	941.6	+0.6	30.3	18.6	9.5	13.0	32	+4	2.5	+0.7	4.6	0	0	18	2	1	0	0	5	4	2	12	0			
	1730	"	1002.7	937.7	..	34.2	19.1	7.0																					

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—APRIL, 1958 (CHAITRA II—VAISAKHA 10, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars				Mean temperature in °C				Cloud amount (Oktas)				No. of observations															
			At mean sea level or height in g.p.m. isobaric level		At station level		Dry bulb		Wet bulb		Dew point		Vapour pressure in mbs.		Relative humidity %		Departure from normal		Mean wind speed kms. per hour		Wind speed (kms. p.h.)		Wind direction							
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bihar—Contd. Patna (Aerodrome) .	0530	60	1005.9	999.1	..	24.3	19.3	15.6	18.4	60	..	2.2	..	9.3	0	2	22	1	1	12	3	1	2	4	0	6	0	0		
	0830	"	1007.7	1001.0	..	29.6	21.3	15.6	18.5	47	..	1.9	..	12.9	0	3	24	1	2	12	5	0	2	5	0	9	0	0		
	1130	"	1006.9	1000.3	..	35.7	22.4	13.0	16.2	31	..	1.6	..	16.7	0	7	23	1	4	7	4	0	2	8	4	0	0	0		
	1730	"	1002.6	996.2	..	37.1	22.1	10.7	14.4	24	..	2.3	..	15.0	0	8	21	1	1	6	1	1	1	4	14	1	0	0		
	2330	52	1006.0	1000.2	..	29.7	23.1	19.0	22.8	55	..	0.7	..	8.5	0	4	10	0	0	10	3	0	0	1	0	16	0	0		
Dehri . . .	0830	107	1007.5	995.6	..	33.1	20.7	11.4	14.3	30	..	1.4	..	3.2	0	0	30	0	1	2	7	4	13	3	0	0	0	0		
	1730	"	1002.5	991.0	..	37.9	21.1	7.6	11.1	19	..	2.1	..	4.2	0	0	30	1	5	1	1	1	2	10	9	0	0			
Gaya . . .	0230	116	1005.8	992.7	..	27.0	18.6	11.7	14.8	41	..	1.6	..	4.9	0	1	12	0	1	1	5	0	5	0	1	17	0			
	0530	"	1006.4	993.5	..	25.1	18.0	12.1	14.6	47	..	1.8	..	4.5	0	1	12	0	1	2	3	2	4	1	0	17	0			
	0830	"	1008.2	995.3	+1.0	32.8	21.2	12.8	15.6	33	+11	1.7	+0.4	9.3	0	2	24	0	0	3	3	3	10	5	2	4	0			
	1130	"	1007.1	994.5	..	38.2	22.7	11.6	14.8	23	..	1.6	..	13.8	0	8	13	1	1	2	0	1	0	7	10	9	0			
	1730	"	1003.3	990.6	..	38.3	21.7	9.4	12.3	21	..	3.4	..	16.2	0	9	21	4	3	4	0	0	0	1	18	0	0			
Jamui . . .	0830	82	1008.2	999.2	..	31.4	22.3	16.3	19.4	44	..	2.2	..	5.1	0	0	26	0	1	16	3	1	0	2	3	4	0	0		
	1730	"	1003.5	994.3	..	36.7	22.5	12.5	15.8	27	..	2.7	..	7.3	0	0	27	0	1	6	0	0	0	7	13	3	0			
Dumka . . .	0830	149	1008.7	992.1	+1.0	30.7	22.6	17.3	21.0	50	+3	3.1	+1.5	5.3	0	0	29	0	2	5	7	1	4	6	4	1	0			
	1730	"	1004.6	988.5	..	36.4	24.9	17.0	22.5	39	..	3.1	..	5.8	0	0	29	1	3	5	1	3	6	7	1	0				
Bhagalpur . . .	0530	49	1007.1	1001.5	..	24.7	20.3	17.3	20.2	66	..	1.5	..	7.6	0	1	24	1	2	13	4	1	1	3	0	5	0			
	0830	"	1008.8	1003.3	..	29.1	22.5	18.5	21.8	55	..	2.0	..	6.8	0	1	26	0	3	13	6	1	2	1	1	4	5	3		
	1130	"	1008.3	1002.9	..	34.2	23.9	17.9	21.3	42	..	1.7	..	9.4	0	4	23	0	4	11	1	1	1	4	5	3	0			
	1730	"	1003.8	998.4	..	35.2	23.3	16.0	18.8	35	..	1.8	..	9.8	0	3	25	4	2	4	1	2	1	7	7	2	0			
	2330	"	1006.7	1001.2	..	28.6	21.7	17.4	20.3	53	..	0.6	..	12.0	0	3	26	0	1	17	3	3	3	1	1	1	0			
Sabour . . .	0830	37	1008.7	1004.5	+1.0	28.9	23.8	20.8	25.5	64	+20	2.6	+0.7	9.1	0	1	28	4	3	13	3	0	2	2	1	1	0			
	1730	"	1003.4	999.4	..	35.4	25.3	19.9	24.3	43	..	2.3	..	9.8	0	3	26	5	3	2	1	2	1	2	13	1	0			
Uttar Pradesh (East)																														
Gonda . . .	0830	110	1007.6	995.5	..	21.9	19.6	11.3	14.6	36	-4.4	1.9	+0.5	4.5	0	0	26	2	1	13	0	0	0	2	8	4	0	0		
	1730	"	1003.0	991.0	..	36.6	21.0	8.0	12.4	19	..	0.5	..	1.2	0	0	7	0	0	1	0	0	0	2	4	23	0			
Nautanwa . . .	0830	99	1008.8	997.6	..	28.7	20.4	13.2	17.4	41	..	1.8	..	10.1	0	0	29	1	2	11	12	0	2	1	0	1	0			
	1730	"	1003.5	992.6	..	35.1	21.0	9.4	13.1	24	..	2.2	..	7.5	0	0	26	1	1	4	4	1	1	7	6	2	4			
Gorakhpur . . .	0830	77	1008.7	999.2	+0.6	28.4	20.4	15.2	17.2	44	-2	1.7	+0.6	4.3	0	0	27	3	2	11	0	1	1	9	0	3	0			
	1730	"	1004.1	995.6	..	36.1	21.6	10.0	13.7	26	..	1.6	..	4.2	0	0	29	1	1	4	0	0	1	20	2	1				
Gorakhpur (P.B.O.) .	0230	78	1005.3	996.3	..	25.9	19.2	14.2	17.2	51	..	0.7	..	4.9	0	0	17	1	3	4	2	1	3	2	1	13	0			
	0530	"	1006.1	997.1	..	24.0	18.7	14.8	17.2	58	..	1.5	..	5.0	0	0	19	0	7	5	0	1	2	4	0	11	0			
	1130	"	1007.4	998.8	..	25.1	22.3	14.0	16.4	31	..	1.2	..	9.1	0	1	26	0	5	5	2	5	3	6	1	3	0			
	2330	"	1005.8	996.9	..	27.8	20.6	15.8	18.3	51	..	0.7	..	6.0	0	1	26	1	4	6	3	0	4	3	0	9	0			
	0830	78	1007.5	998.8	..	29.8	21.7	16.5	19.8	47	..	0.5	..	..	0	0	27	0	0	15	0	1	0	11	0	3	0	
Azamgarh . . .	0830	78	1003.3	995.1	..	35.8	23.7	16.1	18.5	31	..	0.7	..	..	0	0	14	0	0	6	0	0	1	7	0	16	0	
	1730	"	1003.3	995.1	..	35.8	23.7	16.1	18.5	31	..	0.7	..	..	0	0	14	0	0	6	0	0	1	7	0	16	0	
Ballia . . .	0830	64	1008.0	1000.0	..	29.5	20.9	15.0	17.6	44	..	2.2	..	4.6	0	0	27	0	7	4	4	1	10	1	0	3	0			
	1730	"	1003.2	996.2	..	37.2	21.7	9.7	13.2	21	..	2.8	..	6.2	0	0	28	0	7	1	0	0	15	4	1	2	0			
Varanasi (Banaras) .	0830	76	1007.6	999.1	+0.3	31.4	0.8	12.9	16.5	34	-5	1.6	+0.3	5.2	0	0	27	0	3	4	1	0	0	2	4	12	2			
	1730	"	1003.2	994.5	..	37.9	22.1	10.1	13.4	21	..	2.4	..	7.5	0	0	28	3	4	1	0	0	2	4	1	3	1			

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—APRIL, 1958 (CHAITRA 11—VAISAKHA 10, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Octas)	Wind speed (kms.p.h.)	No. of observations														
			At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Dry bulb	Wet bulb	Dew point						N	NE	E	SE	S	SW	W	NW	Calm	Variable					
	2	3	4	5	6	7	8	9						19	20	21	22	23	24	25	26	27	28					
1																												
Uttar Pradesh (East) —Contd.																												
Lucknow	0830	111	1003.4	996.0	+1.4	29.4	19.8	12.9	15.1	37	-1	1.3	+0.1	..	0	0	29	0	1	8	2	0	0	17	1	1	0	
	1730	"	1004.1	992.0	..	37.0	22.8	13.1	16.6	25	..	0.9	..	..	0	0	30	0	1	7	0	0	2	20	0	0	0
Lucknow (Amausi Aerodrome)	0230	128	1005.3	990.8	..	24.3	17.3	11.3	14.4	44	..	0.3	..	3.1	0	1	12	2	1	4	1	0	0	1	4	17	0	
	0530	"	1005.2	991.3	..	23.5	13.0	11.0	13.6	48	..	1.0	..	2.9	0	0	13	1	1	5	1	0	0	1	4	17	0	
	0830	"	1007.3	993.3	-0.5	30.1	19.9	11.7	14.6	34	+9	1.7	+0.5	11.0	0	2	24	2	0	4	4	2	2	6	6	4	0	
	1130	"	1007.2	993.3	..	36.3	21.8	10.4	14.1	24	..	2.2	..	15.0	0	7	22	2	1	4	5	2	1	2	12	1	0	
	1730	"	1002.8	989.2	..	37.2	22.0	10.4	13.9	22	..	1.5	..	12.1	0	3	23	2	1	3	3	1	1	2	13	4	0	
	2330	"	1005.9	991.5	..	27.6	18.7	11.7	14.6	39	..	0.9	..	6.2	0	3	11	2	1	4	3	0	0	3	3	16	0	
Hardoi	0830	142	1007.8	991.8	..	28.5	20.9	16.3	17.9	48	..	2.1	..	3.4	0	0	22	4	0	3	4	2	2	3	4	8	0	
Lakhimpur Kheri	0830	147	1008.2	991.6	..	26.9	19.1	13.4	15.9	45	..	0.3	..	4.3	0	0	26	0	0	7	1	0	0	18	0	4	0	
Bahraich	0830	124	1008.1	994.2	+1.2	29.8	22.5	17.8	21.1	50	+5	1.5	+0.5	3.5	0	0	23	0	0	13	3	0	1	5	1	7	0	
	1730	"	1003.9	990.9	..	35.9	24.3	17.8	21.1	37	..	1.4	..	2.1	0	0	24	0	0	8	1	1	0	14	0	6	0	
Uttar Pradesh (West)																												
Orai	0830	141	1009.0	993.4	..	32.1	22.6	16.8	20.0	42	..	1.5	..	5.5	0	0	30	1	0	0	4	2	4	6	19	0	0	
	1730	"	1003.7	988.7	..	38.7	24.8	16.7	20.3	29	..	1.2	..	5.0	0	0	30	8	2	0	0	2	5	1	12	0	0	
Jhansi	0830	251	1008.1	980.5	+0.3	30.5	21.5	16.0	18.7	42	+13	1.6	+0.5	1.9	0	0	23	1	1	1	5	1	6	1	7	0	0	
	1730	"	1002.6	975.7	..	39.9	26.2	19.2	23.2	32	..	1.6	..	2.5	0	0	26	1	3	1	1	1	5	6	8	4	0	
Agra	0830	169	1008.1	989.3	+0.6	30.1	19.5	10.8	14.0	33	+5	1.2	-0.1	2.5	0	0	17	1	1	0	1	4	4	4	2	13	0	
	1730	"	1003.6	985.5	..	38.9	21.3	7.6	11.2	16	..	1.1	..	3.4	0	0	23	3	3	0	0	0	5	2	10	7	0	
Agra (Aerodrome) (R)	0530	168																										
(R)	0830	"																										
(R)	1130	"																										
(R)	1730	"																										
(R)	2330	"																										
Mainpuri	0830	157	1007.5	989.7	0	29.6	20.2	13.8	15.7	38	+2	1.0	-0.4	2.2	0	0	18	0	0	1	4	0	0	12	1	12	0	
	1730	"	1002.4	985.5	..	38.7	22.5	11.1	13.2	20	..	1.1	..	2.8	0	0	24	0	0	4	1	0	0	16	3	6	0	
Aligarh	0830	187	1007.9	986.4	..	28.6	18.3	11.4	13.6	36	+7	1.1	+0.1	3.8	0	0	27	2	3	3	4	0	1	9	5	3	0	
	1730	"	1004.3	983.9	..	37.6	21.4	11.5	12.8	19	..	2.6	..	4.0	0	0	20	4	0	4	0	0	1	8	3	10	0	
Bareilly	0830	173	1008.0	988.6	+1.1	29.1	18.8	10.9	13.1	35	-9	7.3	-0.3	6.1	0	0	24	2	2	7	2	0	1	8	2	6	0	
	1730	"	1002.9	981.0	..	36.7	20.5	6.9	11.1	17	..	1.8	..	3.7	0	0	19	0	0	2	1	0	0	14	2	11	0	
Bareilly (P.B.O.)	0230	172	1005.4	985.7	..	26.4	20.9	18.1	19.7	61	..	0.7	..	8.0	0	1	24	1	1	9	1	0	0	8	5	5	0	
	0530	"	1005.7	986.2	..	24.3	20.1	17.7	19.8	67	..	1.4	..	7.6	0	0	23	2	0	6	1	1	0	8	5	7	0	
	1130	"	1007.1	988.2	..	34.6	26.5	23.2	27.8	53	..	1.3	..	13.9	0	5	25	1	1	7	4	2	1	9	5	0	0	
	2330	"	1005.6	986.4	..	28.7	22.4	19.5	22.7	58	..	0.8	..	6.2	0	1	21	0	2	7	1	0	0	7	5	8	0	
Meerut	0830	222	1008.0	983.3	+1.3	29.4	19.8	13.2	15.1	36	-5	0.4	-1.1	3.6	0	0	14	0	0	7	0	0	0	5	2	16	0	
Najibabad	0830	270	1007.8	977.6	..	26.6	19.3	14.2	16.7	48	..	0.8	..	2.4	0	0	19	0	5	3	4	0	0	0	7	11	0	
	1730	"	1003.8	974.6	..	36.0	22.0	12.3	15.5	24	..	1.2	..	3.4	0	0	24	0	0	2	0	0	2	0	20	6	0	
Roorkee	0830	274	1008.2	977.2	+0.7	26.2	18.5	12.6	14.8	45	+4	2.6	+1.1	1.1	0	0	11	1	1	0	5	0	0	0	0	4	19	0
	1730	"	1002.9	973.2	..	35.2	20.5	9.6	11.8	23	..	3.6	..	2.1	0	0	19	3	0	0	3	0	0	3	0	10	11	0
Dehra Dun	0530	682	1007.1	931.2	..	20.2	14.3	9.7	12.4	52	..	1.0	..	2.6	0	0	16	3	11	1	0	0	0	0	14	0	0	0
	0830	"	1007.7	933.3	+1.3	26.2	17.6	11.4	14.4	41	-3	1.1	-1.2	1.7	0	0	16	2	3	1	1	1	6	4	0	14	0	
	1130	"	1006.6	933.4	..	31.6	18.6	9.1	13.0	26	..	1.4	..	4.2	0	0	25	0	1	1	3	6	8	4	5	1		
	1730	"	1003.1	930.2	..	32.1	18.7	9.1	13.2	25	..	2.5	..	5.6	1	1	21	2	1	0	0	3	7	7	3	7	0	
	2330	"	1006.6	931.7	..	23.8	16.1	10.3	13.3	44	..	0.5	..	3.3	0	0	22	4	17	0	0	0	0	0	1	8	0	
Punjab (India) (Including Delhi)	New Delhi	0230	216	1005.5	981.4	..	26.2	17.7	10.9	13.0	40	..	1.5	..</td														

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—APRIL, 1958 (CHAITRA 11—VAISAKHA 10, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars	Mean temperature in °C				Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas)	Wind speed (kms.p.h.)	No. of observations														
													Wind direction														
				At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Dry bulb	Wet bulb	Dew point	At 1000 hPa	At 900 hPa	At 800 hPa	At 700 hPa	At 600 hPa	At 500 hPa	At 400 hPa	At 300 hPa	At 200 hPa	N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	12	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Punjab (India) (including Delhi)—Contd.	0830	249	1007.0	979.0	..	25.7	17.8	11.3	14.1	43	..	0.8	..	..	0	0	1	0	1	0	0	0	0	0	0	29	0
	1730	"	1004.7	977.2	..	34.9	20.3	8.6	11.8	21	..	2.0	..	..	0	0	6	0	2	0	0	0	0	2	2	24	0
Panjab	0830	251	1007.3	979.3	..	27.5	18.4	11.3	13.3	36	..	2.0	..	5.8	0	0	25	3	0	2	12	0	0	1	7	5	0
	1730	"	1004.5	977.3	..	35.1	21.4	11.2	14.4	25	..	2.3	..	7.7	0	1	18	5	3	0	2	0	0	0	9	11	0
Ambala	0830	272	1007.8	977.5	+1.0	26.2	18.6	12.7	15.4	44	+7	1.0	-0.8	4.0	0	0	23	0	0	0	8	0	0	0	11	7	0
	1730	"	1003.5	973.8	..	35.2	21.5	11.9	14.4	27	..	0.8	..	2.1	0	0	12	0	0	0	4	0	0	0	8	18	0
Ambala (P.B.O.)	0230	278	1005.1	974.0	..	26.4	16.4	9.1	10.5	35	..	1.8	..	10.7	0	2	27	4	5	1	9	1	1	1	7	1	0
	0530	"	1005.5	974.2	..	24.6	16.0	9.7	11.0	41	..	1.9	..	8.2	0	0	25	3	1	3	8	0	0	0	2	8	5	0
Ambala (Aerodrome)	1130	"	1006.9	976.5	..	33.9	19.6	10.0	10.9	25	..	1.4	..	12.9	0	3	27	1	2	0	12	1	3	3	8	0	0
	2330	"	1005.5	974.7	..	28.3	17.3	9.5	10.7	32	..	1.6	..	9.8	0	2	25	8	4	0	4	3	1	0	7	3	0
Chandigarh	0530	273	1006.0	974.8	..	22.3	15.6	9.9	12.7	47	..	1.9	..	9.2	0	2	24	0	0	6	4	0	1	4	11	4	0
	0830	"	1007.2	976.6	..	27.7	18.0	10.2	12.8	34	..	1.9	..	13.7	0	8	19	0	0	11	6	1	0	5	10	0	0
Ludhiana	1130	"	1006.9	976.9	..	24.3	19.6	8.2	11.7	22	..	1.8	..	20.5	0	14	16	0	1	3	10	1	0	5	11	3	0
	1730	"	1003.1	973.3	..	35.7	19.9	6.4	10.1	19	..	3.4	..	22.4	0	11	16	0	0	1	4	2	2	6	11	3	0
Jarrowpur	0730	200	1006.4	983.8	..	25.7	20.4	16.5	19.5	60	..	0.7	..	1.2	0	0	14	1	4	0	2	1	0	0	14	7	0
	1730	"	1003.1	981.3	..	36.4	25.1	18.4	22.9	36	..	1.4	..	2.7	0	0	23	4	4	0	0	0	1	1	4	7	1
Amritsar	0530	234	1006.6	979.8	..	19.0	15.1	11.6	13.9	62	..	2.1	..	6.2	0	0	23	3	3	9	1	0	1	1	6	5	1
	0830	"	1007.8	981.4	..	25.9	18.2	12.6	14.5	44	..	2.0	..	10.9	0	3	24	2	4	6	4	1	1	4	5	3	0
Pathankot	1130	"	1007.4	981.9	..	33.6	20.0	9.6	11.9	24	..	1.9	..	13.3	0	5	24	3	2	3	7	1	1	6	5	1	1
	1730	"	1003.9	978.5	..	36.5	19.7	6.4	9.2	18	..	2.1	..	12.4	0	4	25	3	0	3	2	2	0	9	10	1	0
Pathankot (Aerodrome)	0830	344	1008.0	969.9	..	25.9	18.3	12.4	15.4	46	..	3.1	..	3.2	0	1	16	1	4	7	5	0	0	0	13	0	
	1730	"	1004.9	967.6	..	34.0	21.8	14.0	15.9	33	..	3.0	..	5.3	0	0	26	1	4	1	0	1	2	14	3	4	0
Himachal Pradesh	0830	312	1007.8	973.1	..	27.7	18.0	10.3	12.3	36	..	3.4	..	4.5	0	2	17	0	5	11	2	0	0	1	11	0	
	1130	"	1007.6	973.5	..	32.6	19.5	9.3	12.4	26	..	3.2	..	8.9	0	2	27	1	7	3	4	3	6	4	1	1	0
Bilaspur	1730	"	1003.8	970.1	..	34.7	19.2	5.4	9.2	19	..	3.4	..	9.0	0	1	28	1	3	1	1	0	4	9	10	1	0
	0830	493	1009.2	954.0	..	23.2	16.8	12.4	14.0	52	..	2.5	..	2.3	0	1	13	1	3	1	2	3	1	1	16	1	
Mandi	0830	761	1009.9	925.1	..	19.5	14.8	11.3	12.9	59	..	1.3	..	1.2	0	0	12	2	0	0	0	1	0	6	3	18	0
	1730	"	1003.6	922.1	..	29.9	17.6	9.3	10.5	29	..	2.3	..	3.5	0	0	24	0	0	1	3	0	1	7	12	6	0
Jammu and Kashmir	0530	1587	1525.8	843.8	..	10.0	9.2	8.5	11.1	91	..	4.4	..	1.3	0	0	17	0	1	0	6	1	0	3	6	13	0
	0830	"	1536.6	845.1	+3.0	12.8	10.6	8.8	11.3	74	-11	4.4	+0.3	2.7	0	0	22	2	1	2	11	3	0	0	3	8	0
Srinagar	1130	"	1535.0	845.0	..	17.2	12.8	9.6	11.9	61	..	4.4	..	4.3	0	2	21	1	1	0	4	3	3	5	6	7	0
	1730	"	1507.4	842.4	..	18.4	12.7	8.3	10.7	54	..	5.2	..	5.8	0	1	24	2	2	1	3	0	1	10	6	5	0
Gulmarg	0830	2330	1523.8	743.9	..	12.9	11.5	10.4	12.6	84	..	3.3	..	2.5	0	0	18	2	0	0	3	0	1	6	6	12	0
	0830	2655																									
Leh	1730	"																									
	0530	3154	3154.0	668.6	..	1.5	-2.7	-8.6	2.8	44	..	2.2	..	3.5	0	0	15	6	9	0	0	0	0	0	0	14	0
Leh	0830	"	3140.1	669.8	+3.3	5.8	0.3	-0.3	3.1	36	-14	3.1	-1.1	1.3	0	0	5	2	0	0	0	2	1	0	0	25	0
	1730	"	3105.1	666.9	..	11.2	4.0	-5.8	4.1	37	..	4.5	..	8.9	0	0	28	3	4	0	2	1	10	4	4	2	0
Skardu (R)	0830	2288																									
	1730	"																									
Gilgit (R)	0830	1491																									
	1730	"																									
Muzgar (R)	0830	3106																									
	1730	"																									
Jammu (R)	0830	0830																									

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—APRIL, 1958 (CHAITRA 11-VASAKHA 10, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars				Mean temperature in °C				Cloud amount (Oktas)				Wind speed (kms. p.h.)				No. of observations													
			At mean sea level or height in g.p.m. of nearest standard barometric level		At station level		Dry bulb		Wet bulb		Dew point		Vapour pressure in mb.		Relative humidity %		Departure from normal		Mean amount		Departure from normal		Mean wind speed, kms. per hour		Wind speed (kms. p.h.)		Wind direction					
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	Calm	Variable
Rajasthan (West)—Contd.																																
Bikaner . . .	0830	224	1007.5	982.6	+0.3	28.8	17.3	6.0	10.8	26	-2	0.4	-1.0	7.3	0	1	27	0	3	0	7	1	7	4	6	2	0	0	0			
	1730	"	1003.2	979.3	..	39.3	20.2	3.5	8.2	11	..	1.1	..	8.6	0	0	30	2	1	1	2	0	9	0	15	0	0	0	0			
Bikaner (P.B.O.) . .	0530	224	1005.8	980.8	..	25.9	19.6	15.0	17.4	53	..	1.0	..	6.3	0	0	18	1	0	1	3	4	4	3	2	12	0	0	0			
	1130	"	1006.9	982.9	..	38.1	26.5	20.6	24.9	38	..	0.9	..	8.7	0	1	27	3	3	1	4	3	6	5	3	2	0	0	0			
	2330	"	1005.5	981.0	..	30.1	21.8	15.9	19.1	44	..	1.3	..	4.7	0	0	19	3	1	2	0	2	9	0	2	11	0	0	0			
	0830	242	1008.2	981.1	..	26.3	..	..	..	..	..	0	..	5.5	0	1	20	0	0	0	0	0	11	10	0	0	0	9	0	0
Jaisalmer . . .	0830	242	1008.5	980.4	..	38.5	..	..	..	..	..	0	..	8.3	0	3	18	1	1	0	0	0	9	10	0	0	0	9	0	0
	1730	"	1006.5	980.4	..	38.5	..	..	..	..	..	0	..	8.3	0	3	18	1	1	0	0	0	9	10	0	0	0	9	0	0
Phalodi . . .	0830	234	1008.1	981.9	..	29.7	20.4	14.6	15.7	45	..	1.2	..	12.0	0	4	24	0	2	0	3	4	10	9	0	0	2	0	0	0		
	1730	"	1004.4	979.2	..	39.5	24.9	16.5	19.9	29	..	2.0	..	15.1	0	7	22	3	0	0	0	0	2	10	10	4	1	0	0	0		
Jodhpur . . .	0230	224	1006.5	981.4	..	29.0	16.8	5.8	9.1	23	..	0.5	..	9.6	0	2	22	0	3	0	0	0	0	5	12	4	6	0	0	0	0	
	0530	"	1006.9	981.8	..	27.0	16.3	6.8	10.1	29	..	1.3	..	8.4	0	0	24	1	2	0	2	1	9	7	2	6	0	0	0	0		
	0830	"	1008.9	983.9	+2.0	29.3	17.8	7.9	11.5	28	-4	1.7	0	7.7	0	1	22	1	3	0	0	0	3	10	6	0	7	0	0	0		
	1130	"	1008.4	984.0	..	36.9	20.5	7.6	11.3	18	..	1.4	..	11.1	0	2	27	1	0	0	0	3	3	12	8	2	1	0	0	0		
	1730	"	1004.0	979.9	..	39.8	20.4	3.5	8.4	11	..	2.4	..	11.1	0	2	28	1	0	0	0	0	3	11	10	5	0	0	0	0		
	2330	"	1006.7	981.7	..	31.4	17.8	5.7	9.3	21	..	0.5	..	7.2	0	1	23	0	0	0	0	0	1	10	11	2	6	0	0	0		
	0530	194	1006.1	984.4	..	28.5	19.3	12.6	14.8	40	..	0.7	..	15.7	0	2	28	1	0	0	0	0	2	6	14	7	0	0	0	0		
	0830	"	1008.4	986.7	+0.3	29.7	20.6	14.5	16.7	42	-11	1.3	0	10.5	0	0	28	1	1	2	2	5	5	8	4	2	0	0	0			
Barmer . . .	1130	"	1008.0	987.0	..	37.2	22.4	12.6	15.3	25	..	1.3	..	12.2	0	0	30	0	1	0	3	5	10	6	5	0	0	0	0			
	1730	"	1003.9	983.0	..	39.7	22.6	11.0	13.2	19	..	2.6	..	13.0	0	0	30	0	1	1	0	5	13	7	3	0	0	0	0			
	2330	"	1006.7	985.3	..	33.4	20.9	12.3	14.5	26	..	0.6	..	14.6	0	5	25	0	0	0	0	0	13	16	1	0	0	0	0			
	0830																															
Rajasthan (East) . .																																
Alwar . . .	0830	271	1007.5	977.7	..	30.0	19.2	10.9	13.4	33	..	1.6	..	4.2	0	0	11	3	5	1	4	4	0	2	2	9	0	0	0	0		
	1730	"	1003.0	974.0	..	38.0	20.7	6.7	10.2	16	..	2.8	..	5.7	0	0	24	4	0	1	2	4	6	3	6	0	0	0	0	0		
Sikar . . .	0830	433	1007.5	960.1	..	29.2	22.0	17.5	20.9	49	..	1.7	..	2.6	0	0	25	0	0	6	8	0	5	5	1	5	0	0	0			
	1730	"	1003.6	957.5	..	37.1	25.7	19.1	23.9	39	..	2.4	..	2.9	0	0	29	3	0	3	4	1	2	9	7	1	0	0	0			
Jaipur . . .	0830	436	1008.2	960.3	+0.2	30.0	18.1	8.1	11.6	26	-2	1.7	+3.0	6.4	0	1	22	3	2	3	2	1	2	4	6	7	0	0	0	0		
	1130	"	1007.3	960.5	..	36.5	19.4	4.3	8.8	14	..	1.6	..	9.1	0	0	30	1	1	2	3	4	8	6	5	0	0	0	0			
Jaipur (Sanganer Aerodrome) . .	1730	"	1003.1	956.7	..	37.7	19.5	3.0	7.7	12	..	3.2	..	9.2	0	2	26	3	2	0	0	1	3	8	11	2	0	0	0	0		
	0230	390	1006.1	962.6	..	25.9	16.2	7.8	10.8	32	..	0.6	..	..	0	1	21	9	1	4	0	0	1	2	5	8	0	0	0	0
	0530	"	1006.7	963.1	..	24.6	16.1	8.1	11.0	26	..	0.9	0	1	26	7	4	6	0	0	0	0	3	7	3	0	0	0	0	
	0830	"	1007.8	964.8	..	30.0	18.1	8.3	11.0	27	..	1.6	0	1	24	1	3	2	4	0	0	0	3	8	5	0	0	0	0	
Dholpur . . .	1130	"	1007.2	965.0	..	35.5	20.0	7.4	10.7	19	..	1.3	..	..	0	3	26	1	1	3	4	4	5	7	3	1	1	1	1	1
	1730	"	1003.0	961.2	..	37.4	20.0	5.3	8.8	15	..	3.0	..	..	0	2	25	1	0	0	0	2	3	11	10	3	0	0	0	0
	2330	"	1006.4	963.3	..	28.2	17.1	7.3	10.0	27	..	1.0	0	1	23	9	2	3	1	0	1	1	7	6	0	0	0	0	0	
	0830	176	1007.2	987.7	..	31.4	20.3	12.4	14.4	33	..	1.9	..	6.5	0	0	27	1	2	1	5	4	4	6	4	3	0	0	0	0		
Ajmer . . .	1730	"	1002.3	983.4	..	38.7	21.7	9.4	13.2	18	..	1.8	..	8.3	0	0	29	8	2	0	1	0	1	1	6	1	0	0	0	0	0	
	0830	486	1008.3	955.2	+0.3	29.4	17.6	8.5	11.3	29	-1	1.8	+1.4	7.3	0	1	22	0	3	0	1	1	7	9	2	7	0	0	0	0	0	
Kotah . . .	17																															

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—APRIL, 1958 (CHAITRA 11—VAISAKHA 10, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Relative humidity %	Departure from normal	Cloud amount (Octas)		Wind speed (kms. p.h.)			No. of observations														
			At mean sea level or height in g.p.m. of nearest standard isobaric level			At station level					Dry bulb		Wet bulb		Dew point		Vapour pressure in mbs.		Departure from normal		Mean amount		Departure from normal		Mean wind speed kms. per hour		Wind direction			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	Calm	Variable
Madhya Pradesh (West)																														
Gwalior (P.R.O.)	0230	207	1005.3	982.4	..	26.3	16.1	5.7	9.7	27	..	1.2	..	3.6	0	0	16	6	0	2	1	1	3	1	2	14	0			
	0530	"	1006.3	982.9	..	25.5	15.7	6.2	10.1	31	..	1.7	..	3.7	0	0	16	1	1	0	1	1	4	2	2	6	14	0		
	0830	"	1007.8	984.9	+0.4	31.8	18.6	6.9	10.3	23	-3	1.8	+0.6	9.0	0	1	25	5	1	0	4	2	2	7	5	4	0			
	1130	"	1007.1	984.7	..	37.7	19.7	3.2	8.3	13	..	1.5	..	11.1	0	2	27	2	1	1	4	1	3	8	9	1	0			
	1730	"	1003.0	980.7	..	38.9	19.2	-1.1	6.2	9	..	2.2	..	11.0	0	3	27	3	1	0	1	0	2	9	14	0	0			
	2330	"	1005.9	982.9	..	29.1	17.1	6.0	10.3	24	..	1.2	..	2.5	0	0	11	1	0	3	1	0	1	2	3	19	0			
Sheopur Kalan	0830	235	1008.3	982.3	..	30.5	18.9	10.2	12.4	28	..	1.7	..	7.5	0	3	24	4	4	1	1	5	6	3	3	3	0			
	1730	"	1002.7	977.6	..	39.2	21.2	7.3	10.7	15	..	2.5	..	12.4	0	4	25	4	3	0	1	0	4	5	9	1	3			
Guna	0530	478	1007.6	954.0	..	23.8	14.5	6.4	9.6	33	..	1.9	..	3.4	0	1	14	2	1	1	4	3	3	1	0	15	0			
	0830	"	1007.8	955.7	-0.1	30.6	17.5	7.2	10.5	24	-2	2.1	+1.3	4.7	0	0	24	2	1	6	0	3	2	10	0	6	0			
	1130	"	1007.2	956.0	..	36.2	18.9	5.4	9.2	16	..	1.5	..	8.3	0	3	22	4	0	2	4	1	4	6	5	0				
	1730	"	1002.6	951.9	..	37.7	18.9	3.5	8.0	12	..	3.0	..	14.5	0	4	25	3	1	1	2	3	14	4	1	0				
	2330	"	1006.6	954.2	..	28.6	16.4	6.2	9.4	25	..	2.0	..	4.5	0	2	13	3	0	2	3	2	1	3	1	15	0			
	0830	382	1008.4	966.3	..	29.7	17.8	7.2	11.0	25	..	1.6	..	6.5	0	3	20	10	0	0	1	2	4	5	1	7	0			
Rajgarh	1730	"	1003.1	962.8	..	38.8	20.2	5.3	8.7	13	..	2.4	..	9.9	0	1	28	11	1	0	0	2	2	10	3	1	0			
	Neemuch	0830	496	1009.3	955.1	+1.0	30.0	16.9	5.9	9.8	23	-11	1.8	+0.7	9.2	0	2	25	0	6	1	0	0	4	12	4	3	0		
Ratlam	0830	486	1009.7	955.9	..	25.8	17.6	11.6	13.6	41	..	1.9	..	7.6	0	0	24	1	1	0	1	0	1	10	9	1	6	0		
	1730	"	1003.9	951.7	..	37.5	21.6	11.8	13.4	23	..	2.7	..	11.9	0	3	25	2	2	2	0	6	11	3	2	0				
	0830	293	1010.5	977.9	..	28.0	19.6	13.5	16.0	43	..	2.2	..	9.8	0	0	27	0	0	0	0	1	7	18	1	3	0			
	1730	"	1004.8	973.3	..	37.7	20.6	6.7	10.3	18	..	2.3	..	13.8	0	6	24	2	0	0	2	1	7	13	5	0	0			
	0530	567	1007.9	945.2	..	24.3	14.2	4.3	8.8	28	..	2.3	..	11.5	0	3	23	2	1	1	1	1	6	11	3	4	0			
	0830	"	1009.2	947.2	+0.6	28.7	17.1	3.2	11.4	29	-8	2.0	+0.6	14.8	0	8	29	0	4	0	1	2	4	16	3	0	0			
Indore	1130	"	1007.8	947.1	..	34.9	18.7	6.3	9.8	18	..	2.0	..	15.7	0	8	21	3	4	2	0	3	4	7	6	1	0			
	1730	"	1003.1	943.1	..	36.7	18.7	4.3	8.4	15	..	3.6	..	17.0	0	9	20	4	3	0	2	0	0	7	10	3	1	0		
	2330	"	1007.6	945.6	..	27.9	15.7	4.8	8.8	25	..	2.2	..	11.5	0	2	25	1	2	1	1	1	4	13	4	3	0			
	0230	523	1006.4	948.8	..	26.7	16.2	7.9	10.6	29	..	1.5	..	8.6	0	2	19	1	1	2	0	2	3	9	3	9	0			
	0530	"	1007.2	949.4	..	25.3	15.8	8.5	11.5	35	..	1.4	..	7.6	0	1	18	1	2	0	2	3	4	6	1	11	0			
	0830	"	1008.6	951.7	+0.7	30.3	18.3	9.7	12.3	28	+4	1.5	+0.1	14.2	0	7	21	0	2	0	7	3	4	7	5	2	0			
Bhopal (Bairagarh)	1130	"	1007.2	951.3	..	36.0	19.6	7.9	11.0	18	..	1.5	..	14.4	0	6	23	4	3	0	1	3	4	7	7	1	0			
	1730	"	1002.6	947.3	..	37.5	19.9	7.0	10.2	16	..	2.5	..	19.4	0	14	14	3	2	2	0	0	4	13	4	2	0			
	2330	"	1006.8	949.7	..	29.3	17.3	8.1	11.3	27	..	1.8	..	10.2	0	5	17	1	1	2	0	0	3	9	6	8	0			
	0830	318	1009.0	973.9	+0.6	31.0	19.8	10.9	14.4	30	+2	2.4	+1.2	7.9	0	0	30	0	2	0	1	2	11	10	4	0	0			
	1730	"	1002.9	969.1	..	39.3	22.0	9.9	12.7	18	..	3.7	..	7.8	0	1	29	4	1	0	1	1	4	9	10	0	0			
	0830	302	1008.9	975.3	+0.2	30.9	18.1	7.3	10.7	24	-4	1.8	+0.5	0.7	0	0	4	0	0	0	0	2	2	0	26	0				
Betul	1730	"	1002.3	969.7	..	38.9	21.4	7.2	11.2	17	..	4.0	..	3.5	0	0	16	2	1	0	0	0	6	5	2	14	0			
	0830	653	1009.2	938.2	..	28.7	18.5	11.1	13.9	36	..	2.8	..	5.1	0	0	24	1	1	1	1	1	7	6	4	3	6	0		
Seoni	0830	685	1009.0	934.8	..	28.7	17.9	10.0	12.6	33	..	3.1	..	6.9	0	0	28	1	2	1	1	0	4	0	5	6	8	0		
	1730	"	1003.0	930.5	..	35.0	19.1	7.1	10.4	21	..	4.3	..	12.2	0	3	27	6	1	0	4	0	5	6	8	0	0			
	0830	619	1008.6	941.9	+1.4	30.2	21.4	16.9	18.9	46	+16	3.9	+2.4	3.8	0	0	26	3	3	1	3	4	9	2	1	4	0			
	1730	"	1003.4	937.4	..	34.8	23.5	17.7	20.8	38	..	4.1	..	2.5	0	0	24	4	2	3	1	3	3	0	8	6	0			
	0830	551	1008.0	948.0	+0.5	30.1	17.3	6.8																						

III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—APRIL, 1958 (CHAITRA 11—VAISAKHA 10, 1880 SAKA)

Division and station	Hour of observation L.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas)		Wind speed (kms.p.h.)	No. of observations												
			At mean sea level or height in g.p.m. of nearest standard isobaric level	A station level	Departure from normal	Dry bulb	Wet bulb	Dew point				Mean amount	Departure from normal		Wind direction		N	NE	E	SE	S	SW	W	NW	Calm	Variable	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (East)—Contd.																											
Mandla . . .	0830	443	1009.3	960.4	+0.9	27.5	19.1	13.1	15.4	42	-	2.5	-	3.0	0	0	18	1	1	4	3	4	3	1	0	12	1
Pendra . . .	1730	"	1003.0	955.7	-	35.1	20.2	8.4	11.6	22	-	4.5	-	6.6	0	2	21	6	0	0	1	1	3	2	7	7	3
Ambikapur . . .	0530	625	1007.4	938.7	-	24.7	16.3	9.9	12.6	41	-	2.0	-	10.7	0	6	23	3	1	0	0	8	9	3	5	1	0
Champa . . .	0830	"	1008.0	940.5	+0.5	30.0	18.4	10.0	12.8	31	0	1.9	-0.1	13.7	0	8	21	3	1	2	0	9	7	4	3	1	0
Raigarh . . .	1130	"	1006.7	940.3	-	34.8	19.4	8.1	11.3	20	-	2.3	-	12.9	0	6	24	6	3	1	4	8	4	3	1	0	0
Jagdalpur (P.B.O.)	1730	"	1002.9	936.6	-	34.6	19.2	6.7	10.9	20	-	4.0	-	14.3	0	6	23	9	1	0	1	5	7	3	3	1	0
Kanker . . .	0830	611	1008.8	942.3	-	28.5	18.7	12.2	13.0	37	-	1.3	-	4.0	0	0	18	1	1	2	0	3	8	3	0	12	0
Deesa . . .	1730	"	1002.9	938.1	-	34.8	19.2	7.6	10.0	20	-	2.9	-	11.2	0	2	27	8	2	2	2	1	4	3	7	1	0
Idar . . .	0830	245	1009.1	981.9	-	29.8	20.1	13.3	15.9	37	-	2.6	-	3.4	0	0	21	1	2	2	2	0	2	10	2	9	0
Ahmedabad . . .	1730	"	1003.2	976.9	-	38.8	21.2	7.9	11.2	16	-	3.7	-	6.7	0	1	23	2	1	0	0	2	5	11	3	6	0
Dholka . . .	0830	220	1009.1	984.8	-	30.9	21.8	16.4	18.6	43	-	3.4	-	3.8	0	0	28	0	6	2	7	2	5	1	5	2	0
Baroda (Aerodrome)	1730	"	1003.1	979.4	-	38.5	22.5	11.5	14.2	20	-	3.1	-	2.8	0	0	22	2	1	2	2	1	5	2	6	8	1
Baroda . . .	0530	533	1008.9	947.6	-	26.7	18.8	13.1	15.3	44	-	3.7	-	8.2	0	0	26	1	0	0	1	8	6	8	2	4	0
Sura . . .	0830	"	1009.1	976.1	+0.9	30.5	20.9	14.4	16.9	39	+5	2.9	+1.2	7.9	0	2	24	0	0	0	2	4	8	8	4	4	0
Surat . . .	1130	"	1007.9	975.6	-	36.2	21.8	11.3	14.3	25	-	2.4	-	11.0	0	2	28	2	0	0	0	3	10	7	8	0	0
Baroda . . .	1730	"	1003.1	971.1	-	38.1	21.6	9.8	12.3	19	-	3.6	-	6.3	0	1	23	1	2	1	2	2	11	4	6	0	
Baroda . . .	2330	"	1006.9	974.0	-	30.4	19.0	12.1	14.5	34	-	3.0	-	11.5	0	2	23	1	0	1	4	8	7	2	3	4	0
Baroda . . .	0830	402	1009.4	965.3	+1.1	30.5	21.6	15.9	18.7	42	+2	3.0	+0.6	1.1	0	0	6	0	0	0	0	0	5	1	2	22	0
Baroda . . .	1730	"	1003.6	960.6	-	36.2	22.5	13.5	15.5	27	-	3.9	-	0.7	0	0	6	0	0	0	2	0	1	2	1	24	0
Baroda . . .	0530	533	1008.9	947.6	-	23.4	19.8	17.8	20.1	71	-	4.0	-	3.1	0	2	12	2	0	2	2	2	3	2	1	16	0
Baroda . . .	0830	"	1009.7	949.6	+1.0	28.5	22.2	18.4	21.8	58	+2	3.5	+1.7	4.2	0	2	23	2	0	2	1	7	11	2	0	5	0
Baroda . . .	1130	"	1008.3	948.9	-	33.3	22.3	13.5	17.7	37	-	2.9	-	6.1	0	1	27	4	2	1	0	3	11	3	4	2	0
Baroda . . .	1730	"	1004.5	945.2	-	32.9	21.8	15.4	16.9	37	-	5.5	-	7.2	0	4	22	1	2	3	2	8	5	0	5	4	0
Baroda . . .	2330	"	1008.7	947.6	-	26.1	20.5	17.6	19.7	60	-	3.4	-	3.7	0	1	16	1	0	1	3	7	2	1	2	13	0
Gujarat																											
Deesa . . .	0830	136	1010.2	994.8	+0.9	28.3	22.0	18.3	21.3	56	-	2.7	-	5.3	0	0	27	4	1	0	1	3	4	6	8	3	0
Idar . . .	1730	"	1005.2	990.4	-	38.4	22.4	11.1	14.0	21	-	2.8	-	9.2	0	0	30	1	0	1	0	4	7	11	6	0	
Ahmedabad . . .	0830	219	1009.5	985.0	-	28.3	21.1	16.3	19.2	52	-	2.1	-	4.6	0	0	26	5	0	1	4	4	8	3	1	4	0
Ahmedabad . . .	1730	"	1004.7	981.3	-	38.4	22.5	11.4	14.3	22	-	2.5	-	10.3	0	0	30	2	0	0	0	1	8	16	3	0	
Dholka . . .	0230	55	1007.6	1001.4	-	28.3	20.7	15.6	18.1	48	-	0.6	-	13.0	0	2	26	0	0	0	1	2	2	15	8	2	
Dholka . . .	0530	"	1008.0	1001.8	-	25.9	20.8	17.4	20.5	62	-	1.0	-	7.5	0	1	27	1	0	0	0	2	2	11	12	2	
Dholka . . .	0830	"	1009.8	1003.6	+0.1	28.2	21.9	18.3	21.3	57	+9	1.7	+0.6	13.7	0	5	25	2	0	0	0	2	2	9	15	0	
Dholka . . .	1130	"	1010.0	1003.9	-	35.4	22.6	14.4	17.0	30	-	1.5	-	11.0	0	1	28	3	1	2	1	5	5	11	1	0	
Dholka . . .	1730	"	1005.1	999.2	-	39.7	22.5	19.7	13.2	49	-	1.9	-	12.9	0	1	25	0	0	0	0	0	3	12	11	4	
Dholka . . .	2330	"	1008.1	1002.0	-	31.2	21.1	14.3	16.9	38	-	0.8	-	14.1	0	2	26	3	0	0	1	3	8	8	5	2	
Paroda . . .	0830	333	1009.7	972.8	-	28.6	19.4	12.7	15.1	39	0	1.0	-0.3	12.8	0	5	23	1	0	0	1	1	9	12	4	2	
Paroda . . .	1730	"	1025.1	969.4	-	38.1	20.2	4.2	9.2	15	-	0.7	-	14.8	0	5	25	1	1	0	1	2	7	12	6	0	
Paroda . . .	0530	34	1008.4	1004.4	-	24.6	19.9	17.0	19.3	64	-	3.7	-	1.5	0	0	10	0	0	0	0	0	5	2	3	20	0
Paroda . . .	0830	"	1010.6	1006.6	-	28.2	21.7	17.8	20.6	55	+8	1.3	+0.6	2.1	0	0	17	1	1	0	0	0	7	3	5	13	0
Paroda . . .	1130	"	1010.5	1006.6	-	35.5	22.7	14.6	17.2	30	-	1.0	-	4.0	0	0	24	4	5	2	0	1	4	5	3	6	0
Paroda . . .	1730	"	1005.5	1001.7	-	39.7	23.0	11.7	14.5	20	-	1.1	-	5.3	0	0	25	1	1	0	0	0	9	4	9	5	0
Paroda . . .	2330	"	1008.6	1004.7	-	29.3	20.8	15.4	17.8	44	-	0.6	-	4.1	0	0	24	2	0	0	0	1	17	4	0	6	0
Baroda . . .	0830	38	1010.5	1006.3	-	28.5	22.1	18.4	21.3	55	-	1.3	-	6.8	0	2	24	3	0	0	0	4	10	2	7	4	0
Baroda . . .	1130	"	1010.4	1006.2	-	35.0	23.5	16.8	19.6	35	-	0.9	-	4.9	0	0	27	1	1	0	2	1					

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—APRIL, 1958 (CHAITRA 11—VAISAKHA 10, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Relative humidity %	Cloud amount (Octas)	Wind speed (kms.p.h.)	No. of observations												Wind direction							
			At mean sea level or height in ft. p.m. of nearest standard isobaric level			At station level						Departure from normal			Departure from normal			Departure from normal			Wind speed k.m.s. per hour			Wind direction							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	Calm	Variable	
Saurashtra and Kutch <i>Contd.</i>																															
Bhuj (P.B.O.)	0230	106	1008.4	996.4	..	24.7	22.1	20.8	24.4	79	..	0.4	..	7.6	0	1	25	0	0	0	0	0	0	15	11	0	4	0			
	0530	"	1008.3	996.3	..	24.0	22.0	20.5	24.8	82	..	0.4	..	9.3	0	0	28	0	0	0	1	2	12	11	5	0	1				
	0830	"	1010.1	998.1	+0.7	26.2	22.8	21.4	25.0	74	+19	1.7	+0.7	9.8	0	2	28	1	0	0	0	1	1	11	11	5	0	0			
	1130	"	1009.9	998.2	..	34.3	22.0	14.1	16.4	31	..	1.5	..	11.4	0	2	28	4	1	0	0	0	1	8	11	5	0	0			
	1730	"	1006.2	994.7	..	36.9	22.5	13.0	15.5	25	..	1.9	..	17.2	0	8	22	1	1	0	0	0	2	14	9	3	0	0			
	2330	"	1009.3	997.3	..	26.4	22.1	19.6	23.0	66	..	0.5	..	10.1	0	0	28	0	0	0	0	0	0	17	11	0	2	0			
Bhuj (Aerodrome)	0830	86	1009.9	1000.8	..	26.7	22.8	20.8	24.6	71	..	1.6	..	10.6	0	5	20	1	0	0	0	0	1	10	8	5	5	0			
	1130	"	1009.9	1001.0	..	34.5	22.1	14.1	16.4	31	..	1.3	..	14.7	0	7	23	3	1	0	0	0	1	4	8	13	0	0			
	1730	"	1006.1	997.4	..	36.9	22.2	12.3	14.7	24	..	1.9	..	19.7	0	11	18	1	0	0	0	0	2	10	7	9	1	0			
Kandla	0830	5	1010.5	1009.9	..	25.7	23.3	22.1	27.8	81	..	2.1	..	14.4	0	7	23	0	0	0	0	1	1	21	6	1	0	0			
	1730	"	1006.6	1006.1	..	33.3	24.3	19.3	23.1	47	..	1.9	..	33.4	0	26	4	0	0	0	0	0	3	26	1	0	0	0			
Mandvi	0830	9	1010.7	1009.7	..	26.7	25.5	25.2	31.7	92	..	1.3	..	20.4	0	15	15	1	0	0	0	0	1	5	16	7	0	0			
Dwarka	0830	11	1010.8	1009.5	+0.6	26.8	24.8	23.9	29.8	83	0	3.9	+2.0	15.3	0	3	27	2	0	0	0	0	2	4	11	11	0	0			
	1730	"	1008.6	1007.3	..	28.6	25.6	24.3	30.3	77	..	3.2	..	20.5	0	9	21	0	0	0	0	0	0	5	15	10	0	0			
Porbander	0830	7	1010.7	1009.9	..	25.7	24.1	23.5	28.6	87	..	2.0	..	..	..	..	..	2	0	0	0	0	1	1	10	13	3	0
	1730	"	1008.2	1007.4	..	29.7	25.8	24.1	30.1	72	..	1.7	..	..	..	..	..	0	0	0	0	0	0	4	22	4	0	0
Porbander (Aerodrome)	0830	7	1010.9	1010.1	..	28.1	24.6	23.2	28.0	73	..	2.0	..	17.2	0	8	22	3	0	0	0	0	1	4	9	13	0	9			
	1130	"	1011.2	1010.4	..	31.6	25.3	22.7	27.2	60	..	1.1	..	22.0	0	17	13	1	0	0	0	0	0	16	3	0	0	0			
Jamnagar	0530	23	1008.6	1006.0	..	23.5	22.5	22.1	26.5	92	..	1.2	..	11.7	0	3	27	0	0	0	0	0	2	13	12	3	0	0			
	0830	"	1010.3	1007.8	+0.3	26.8	24.1	23.2	27.7	79	+13	2.8	+1.5	14.7	0	6	24	0	0	0	0	0	0	11	16	3	0	0			
	1130	"	1010.7	1008.2	..	32.8	24.5	20.3	23.9	49	..	1.7	..	18.7	0	12	18	1	1	0	0	0	0	3	21	4	0	0			
	1730	"	1007.0	1004.5	..	32.0	23.9	19.5	23.2	49	..	1.5	..	32.4	0	28	2	1	0	0	0	0	0	0	25	4	0	0			
Rajkot (Aerodrome)	0830	134	1010.6	995.5	+0.9	25.8	23.1	21.9	25.9	79	+16	0.8	-1.0	18.5	0	8	22	0	0	0	0	0	2	10	10	8	0	0			
	1130	"	1010.2	995.5	..	34.6	22.9	15.9	18.4	34	..	0.7	..	19.2	0	12	17	2	0	0	0	0	0	0	5	10	12	1	0		
	1730	"	1005.9	991.3	..	37.7	22.1	11.4	13.9	22	..	0.9	..	26.4	0	24	6	2	0	0	0	1	1	3	12	11	0	0			
Surendranagar	0830	74	1010.2	1001.7	..	27.9	24.1	22.3	26.8	73	..	1.6	..	15.7	0	4	26	1	0	0	0	1	1	5	8	14	0	0			
	1730	"	1005.5	997.4	..	39.2	27.7	22.0	27.5	41	..	1.9	..	12.4	0	2	27	1	0	0	0	0	0	9	7	12	1	0			
Bhavnagar	0830	17	1010.7	1008.8	+0.9	27.5	20.9	16.8	19.3	53	+3	0.9	-0.4	4.1	0	0	26	0	0	0	0	0	2	8	5	11	4	0			
	1730	"	1006.1	1004.3	..	38.1	25.3	17.4	21.7	35	..	1.3	..	6.3	0	0	29	0	1	7	7	9	1	3	1	6	0	0			
Bhavnagar (Aerodrome)	0830	11	1010.4	1007.2	..	28.6	21.9	18.0	20.9	54	..	1.4	..	15.2	0	4	25	3	0	0	0	1	1	5	8	12	1	0			
	1130	"	1010.7	1009.5	..	34.1	23.5	17.3	20.4	39	..	1.1	..	15.9	0	6	23	5	10	10	0	1	2	0	1	1	0				
Mahuva	0830	16	1010.4	1008.6	..	28.1	22.2	18.8	22.1	59	..	1.3	..	8.3	0	1	25	0	3	0	1	2	5	1	14	3	0				
	1730	"	1007.2	1005.5	..	32.0	25.9	23.0	28.4	60	..	1.3	..	26.7	0	21	8	0	0	0	0	0	15	13	1	0	0				
Keshod	0830	51	1011.3	1005.4	..	26.5	22.9	21.3	25.0	74	..	2.3	..	11.4	0	0	30	7	1	1	1	1	1	4	7	8	0	0			
	1130	"	1011.3	1005.5	..	33.4	22.3	16.8	17.8	38	..	1.2	..	17.7	0	10	19	4	1	0	0	0	2	4	8	10	1	0			
	1730	"	1008.2	1002.5	..	34.5	22.4	16.0	17.2	34	..	1.1	..	29.2	0	23	7	0	0	0	0	0	0	7	23	0	0	0			
Veraval	0230	8	1009.1	1008.2	..	24.6	22.9	22.1	26.6	87	..	0.3	..	13.7	0	3	26	9	1	0	0	1	2	4	12	1	0				
	0530	"	1009.0	1008.1	..	23.3	22.2	21.6	25.9	90	..	0.4	..	8.3	0	2	22	10	0	0	0	0	0	3	8	6	0	0			
	0830	"	1011.0	1010.1	-0.9	26.0	23.5	22.3	26.9	81	+7	1.9	+0.2	13.3	0	5	22	11	0	0	0	0	0	4	1	11	3	0			
	1130	"	1011.3	1010.4	..	29.2	25.4	23.6	29.3	72	..	1.0	..	17.9	0	9	21	0	0	0	0	0	1	5	17	7	0	0			
	1730	"	1008.0	1007.1																											

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—APRIL, 1958 (CHAITRA 11—VAISAKHA 10, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars		Mean temperature in °C				Vapour pressure in mb.	Relative humidity %	Cloud amount (Oktas)	Mean wind speed knts. per hour	No. of observations										Wind direction									
			At mean sea level or height in g.p.m. on nearest standard barometric level		At station level		Dry bulb	Wet bulb					Wind speed (knts. p.h.)										Wind direction									
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28				
Konkan—Contd.																																
Harnai . .	0830	20	1010.4	1008.1	+1.2	27.5	23.8	22.1	26.4	73	-2	3.4	..	9.6	0	1	27	10	2	2	4	3	0	0	0	7	2	0	0			
	1730	"	1007.2	1004.9	..	28.8	25.6	24.1	30.1	76	..	2.9	..	27.7	0	21	9	1	0	0	0	0	0	0	0	8	21	0	0			
Ratnagiri . .	0830	35	1010.9	1006.9	+0.7	27.9	24.5	22.8	28.0	74	..	3.6	0	0	30	0	1	18	0	0	0	0	0	10	1	0	0			
	1730	"	1008.4	1004.5	..	30.4	25.6	23.4	28.8	67	..	3.7	..	..	0	9	21	0	0	1	0	0	0	1	27	1	0	0		
Devgad . .	0830	36	1011.0	1007.0	+1.2	28.3	25.4	23.9	30.2	78	+3	4.4	+0.8	9.0	0	1	29	6	5	5	2	1	1	5	5	0	0	0				
	1730	"	1007.4	1003.4	..	30.1	26.4	24.8	31.6	74	..	3.9	..	25.6	0	18	12	4	0	0	1	0	2	9	14	0	0	0				
Vengurla . .	0230	9	1009.0	1008.0	..	26.2	23.6	22.4	27.1	80	..	2.3	..	(f)	0.6	0	0	4	1	0	0	0	0	0	2	1	21	0	0			
	0530	"	1009.3	1008.3	..	25.7	23.7	22.7	27.8	83	..	3.1	..	(f)	2.2	0	0	11	6	0	1	0	0	0	1	0	3	14	0			
	0830	"	1011.3	1010.3	..	28.6	24.6	22.7	27.6	71	..	3.4	..	(f)	4.4	0	0	19	9	2	4	2	0	2	0	0	6	0	0			
	1130	"	1011.2	1010.2	..	32.1	25.7	22.8	27.8	58	..	2.2	..	11.6	0	0	26	1	0	1	0	0	0	17	7	0	0	0				
	1730	"	1007.8	1006.8	..	30.6	25.3	22.7	27.9	64	..	2.9	..	(e)	12.5	0	3	23	4	0	0	0	0	2	14	6	0	0				
	2330	"	1010.3	1009.3	..	27.6	24.1	22.8	27.1	75	..	2.4	..	(e)	4.3	0	0	18	6	1	1	0	2	1	0	7	8	0				
Maharashtra																																
Nandurbar . .	0830	206	1010.0	987.0	..	30.0	20.7	14.5	16.7	41	..	2.5	..	11.3	0	0	30	0	1	0	0	0	0	0	20	8	1	0	0			
	1730	"	1004.1	981.9	..	38.7	21.0	6.2	10.5	16	..	3.7	..	11.4	0	1	28	2	0	1	0	1	14	7	4	1	0					
Jalgaon . .	0830	201	1009.6	987.2	..	30.0	18.6	9.2	12.2	29	..	1.9	..	16.3	0	10	20	1	1	3	0	1	2	2	9	10	0	0				
	1730	"	1003.6	982.1	..	40.6	20.5	2.1	7.8	10	..	2.4	..	16.3	0	11	19	3	3	0	1	1	3	7	14	1	0					
Malegaon . .	0830	437	1009.8	961.8	+0.8	29.9	19.2	10.9	13.5	33	-5	1.8	+0.7	7.1	0	0	29	3	0	0	1	1	3	7	14	1	0					
	1730	"	1003.8	957.4	..	36.6	20.4	8.5	10.9	19	..	4.2	..	11.5	0	4	22	6	4	2	0	1	0	3	10	4	0					
Deolali . .	0830	571	1010.9	948.1	..	27.2	18.7	12.8	15.3	44	..	2.3	..	6.5	0	1	24	2	1	1	1	6	7	1	6	5	0					
	1730	"	1004.7	943.9	..	35.4	20.3	9.7	12.7	23	..	3.9	..	16.2	0	5	25	5	0	1	0	1	5	8	10	0	0					
Aurangabad . .	0830	581	1010.4	946.9	+1.0	28.7	19.0	12.5	14.9	38	+7	2.7	+1.3	8.5	0	3	23	5	1	1	2	4	4	7	2	4	0					
	1730	"	1003.5	942.1	..	36.8	21.1	11.8	13.6	23	..	4.1	..	13.1	0	4	25	6	5	2	2	3	1	6	4	1	0					
Aurangabad . .	0230	579	1007.6	944.1	..	26.6	18.2	12.3	14.8	43	..	2.4	..	7.5	0	2	18	3	1	0	5	0	1	5	5	10	0					
(Chikalthana) Aero- drome) . .	0530	"	1008.4	944.4	..	24.3	17.2	11.9	14.4	48	..	2.4	..	4.8	0	0	16	4	0	2	0	0	1	5	4	14	0					
	0830	"	1009.3	946.3	..	29.8	20.5	14.7	17.3	42	..	2.0	..	6.8	0	2	19	5	0	2	2	0	0	0	6	6	9	0				
	1130	"	1007.8	946.0	..	35.2	22.1	14.3	16.9	31	..	1.5	..	9.3	0	1	25	6	4	1	1	1	3	6	4	4	0					
	1730	"	1003.1	941.8	..	36.5	22.7	14.6	17.4	29	..	4.3	..	10.4	0	5	19	8	5	1	2	0	0	2	2	4	6	0				
	2330	"	1008.3	945.0	..	27.9	19.1	13.1	15.6	43	..	2.6	..	8.7	0	2	19	6	3	1	2	0	0	0	2	7	9	0				
Ahmednagar . .	0830	657	1009.8	938.2	+0.6	27.3	17.8	10.6	13.6	38	+7	2.0	+0.8	3.8	0	0	28	0	1	0	3	0	0	0	6	0	18	2	0			
	1730	"	1002.9	933.9	..	36.6	20.4	9.3	12.2	20	..	3.2	..	3.9	0	0	27	0	5	0	3	0	0	1	0	18	3	0				
Parbhani . .	0830	423	1010.1	963.6	..	29.6	21.6	15.9	19.2	48	..	2.6	..	8.2	0	0	28	2	3	2	1	3	5	7	5	2	0					
	1730	"	1003.2	958.2	..	37.9	23.4	13.9	17.1	27	..	4.9	..	9.8	0	2	28	5	4	4	3	2	2	5	5	0	0					
Poona . .	0530	559	1009.1	946.9	..	22.6	18.0	15.1	17.3	63	..	2.1	..	0.9	0	0	6	0	0	0	0	0	0	1	2	3	0	24	0			
	0830	"	1010.4	948.9	+0.7	26.6	19.3	14.7	17.1	50	0	2.5	+1.1	0.6	0	0	5	0	0	0	0	0	0	1	1	1	25	0				
	1130	"	1008.4	948.4	..	34.3	20.4	11.3	13.8	27	..	2.4	..	2.6	0	0	17	2	1	4	5	0	0	0	2	3	13	0				
	1730	"	1004.0	944.4	..	34.5	21.3	13.1	15.6	31	..	3.4	..	7.2	0	0	26	2	0	1	2	1	2	5	13	4	0					
	2330	"	1009.5	948.0	..	26.3	19.7	15.7	18.0	54	..	1.9	..	1.8	0	0	11	0	0	0	0	2	0	6	2	1	19	0				
Poona (Lohagaon Aerodrome) . .	0230	593	1008.6	943.0	..	24.0	17.4	12.6	15.0	51	..	1.9	..	5.9	0	1	16	0	0	0	0</											

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—APRIL 1958 (CHAITRA 11—VANAKHA 10, 1880 SAKA)

189

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs.			Relative humidity %			Departure from normal			Cloud amount (Octas)			Wind speed (kms.p.h.)			No. of observations																															
			At mean sea level or height in g.p.m. of nearest standard isobaric level			At station level			Departure from normal			Dry bulb			Wet bulb			Dew point			Vapour pressure in mbs.			Mean amount			Departure from normal			Mean amount			Wind speed knts. per hour			N		NE		E		SE		S		SW		W		NW		Calm		Variable	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28																									
Vidarbha																																																							
Buldhana	0830	650	1008.9	938.3	..	28.5	19.8	14.4	16.8	44	..	2.5	..	5.3	0	0	29	0	1	0	2	0	4	0	22	1	0																												
	1730	"	1003.3	934.6	..	35.7	22.3	14.5	17.2	31	..	4.2	..	3.3	0	0	24	0	1	0	0	0	1	0	22	6	0																												
Akola	0830	282	1009.3	976.9	-0.3	31.9	18.9	9.9	11.3	28	0	2.4	+0.9	4.3	0	0	25	0	1	1	0	0	1	7	15	5	0																												
	1130	"	1008.0	977.5	..	37.1	21.2	9.4	12.6	20	..	2.2	..	6.1	0	0	29	1	2	2	1	1	1	3	12	4	3	0																											
Akola (Aerodrome)	0530	309	1007.0	972.5	..	26.5	16.4	6.8	10.9	31	..	2.2	..	4.5	0	0	24	1	2	1	1	1	2	3	13	1	6	0																											
	2330	"	1006.5	972.6	..	31.4	18.6	7.9	10.7	25	..	2.6	..	7.3	0	2	23	0	1	2	1	1	1	2	8	9	2	5	0																										
Amravati	0830	370	1009.3	968.6	+1.2	30.3	19.8	12.4	14.8	34	+6	2.7	+1.2	7.4	0	1	26	2	1	1	1	5	9	8	0	3	0																												
	1730	"	1003.0	963.5	..	38.1	22.0	10.8	13.7	21	..	3.4	..	9.2	0	1	27	4	2	2	3	1	4	7	5	2	0																												
Yeotmal	0830	451	1008.9	959.7	..	31.0	20.8	13.6	16.3	37	..	2.5	..	12.6	0	7	21	2	1	1	2	5	6	8	3	2	0																												
	1730	"	1002.3	954.7	..	38.1	21.9	10.7	13.3	21	..	2.8	..	7.7	0	0	27	3	3	3	4	3	2	6	3	3	0																												
Nagpur	0230	310	1006.5	972.2	..	27.5	20.9	17.1	19.6	54	..	2.6	..	5.4	0	1	26	0	1	0	1	2	9	6	8	3	0																												
	0530	"	1007.6	972.9	..	25.9	20.1	16.7	19.1	57	..	3.3	..	6.0	0	1	25	4	3	0	4	2	6	0	7	4	0																												
Gondia	0830	"	1009.4	975.1	+1.1	31.1	23.3	18.5	22.3	51	+18	3.4	+1.1	7.4	0	1	26	2	2	1	6	5	6	0	5	3	0																												
	1130	"	1008.1	974.5	..	37.2	25.8	20.4	23.9	41	..	3.1	..	9.0	0	0	29	2	3	1	7	3	8	3	2	1	0																												
Brahmapuri	0830	229	1010.1	984.3	..	29.5	21.6	16.8	19.2	48	..	3.1	..	9.9	0	1	27	1	1	0	10	6	9	1	0	2	0																												
	1730	"	1003.7	979.0	..	38.9	23.1	12.4	15.4	23	..	3.3	..	7.2	0	1	25	4	2	2	3	5	3	5	2	4	0																												
Chanda	0830	193	1009.7	988.2	+1.1	31.3	21.8	16.0	18.4	41	+4	2.8	+1.1	5.7	0	0	29	0	1	3	9	7	4	3	2	1	0																												
	1730	"	1003.2	982.4	..	38.3	22.8	19.0	15.0	23	..	3.4	..	7.4	0	0	30	5	1	4	4	7	5	1	3	0	0																												
Sironcha	0830	123	1010.9	997.0	..	29.5	23.1	19.6	23.0	56	..	3.2	..	8.1	0	0	29	0	0	0	6	10	9	1	2	1	1	0																											
	1730	"	1004.3	990.9	..	38.2	23.6	14.9	17.4	26	..	3.2	..	7.1	0	2	27	2	3	5	5	6	3	5	0	1	0																												
Coastal Prades	Andhra																																																						
Nellore	0530	20	1008.8	1006.5	..	26.2	24.6	23.9	29.5	87	..	2.5	..	3.3	0	0	30	0	0	2	23	3	2	0	0	0	0																												
	0830	"	1010.8	1008.6	+1.4	30.6	25.7	23.5	29.1	67	-4	2.1	-0.9	6.1	0	0	30	0	0	1	22	7	0	0	0	0	0																												
Ongole	1130	"	1009.8	1007.6	..	35.6	25.8	21.2	25.3	43	..	1.9	..	5.6	0	0	30	0	0	2	23	4	0	1	0	0	0																												
	1730	"	1006.5	1004.3	..	32.0	26.1	23.5	29.0	61	..	2.5	..	10.8	0	0	30	0	0	3	27	0	0	0	0	0	0																												
Rentachintala	0830	106	1010.4	998.3	..	30.0	24.7	22.2	26.9	63	+6	4.0	-0.4	4.4	0	0	26	1	0	5	5	13	2	0	0	4	0																												
	1730	"	1004.9	993.4	..	37.7	24.1	16.9	19.0	30	..	3.3	..	4.4	0	0	26	2	1	15	3	1	2	2	0	4	0																												
Gannavaram	0230	24	1008.3	1005.7	..	26.9	24.9	24.0	30.4	84	..	1.3	..	2.1	0	0	10	0	0	1	4	4	1	0	0	0	20	0																											
	0530	"	1008.9	1006.3	..	26.4	24.9	24.0	30.3	88	..	2.8	..	3.6	0	1	14	1	1	3	5	5	0	0	0	0	15	0																											
Masulipatam	0830	"	1010.7	1008.2	..	29.5	25.7	24.0	29.7	73	..	3.6	..	8.6	0	2	22	1	1	2	12	6	2	0	0	0	6	0																											
	1730	"	1009.9	1007.4	..	34.5	25.4	21.0	25.0	46	..	2.4	..	9.4	0	2	26	0	1	2	11	9	5	0	0	0	2	0																											
Nidadavolu	0530	3	1009.1	1008.8	..	28.1	25.1	23.9	29.4	78	..	0.6	..	6.2	0	0	21	0	0	1	9	10	1	0	0	0	9	0																											
	0830	"	1011.1	1010.7	+0.8	29.7	26.3	24.8	31.5	74	-2	3.8	+0.4	9.1	0	1	26	1	0	0	3	13	7	2	1	3	0																												
Kakinada	1130	"	1010.5	1010.3	..	33.3	26.8	24.0	30.0	59	..	3.8	..	13.4	0	2	27	1	0	1	6	17	4	0	0	0	1	0																											
	1730	"	1007.2	1006.9																																																			

TABLE III.—SUMMARY OF OBSERVATIONS AT FIXED HOURS—APRIL, 1958 (CHAITRA 11—VAKHHA 10, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs.			Relative humidity %			Cloud amount (Oktas)			Wind speed (kms.p.h.)			No. of observations											
			At mean sea level or height in 6 P.M. of nearest standard isobaric level			At station level			Departure from normal			Departure from normal			Mean amount			Departure from normal			Mean wind speed, kms. per hour			Wind direction								
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	Calm	Variable		
Coastal Andhra Pradesh—Contd.																																
Calingapatam	0830	6	1010.0	1009.3	+0.5	27.6	25.2	24.1	30.1	82	+10	4.1	+1.5	6.0	0	0	90	0	0	0	0	15	15	0	0	0	0	0	0	0	0	
	1730	"	1006.9	1006.2	..	30.3	27.3	26.1	33.8	78	..	4.6	..	9.4	0	0	30	0	0	0	0	15	15	0	0	0	0	0	0	0	0	
Telangana																																
Ramagundam	0830	156	1010.3	992.8	..	30.1	23.2	19.9	23.2	55	..	3.2	..	9.8	0	4	25	0	3	4	14	6	2	0	0	1	0	0	0	0		
	1730	"	1004.0	987.1	..	38.8	23.4	13.7	16.0	25	..	3.8	..	5.4	0	0	28	5	3	3	8	5	2	1	1	2	0	0	0	0		
Nizamabad	0830	381	1009.8	967.8	+1.1	29.4	21.4	16.5	18.9	47	+5	3.1	+1.2	3.0	0	0	21	0	1	1	10	2	5	1	1	9	0	0	0	0		
	1730	"	1003.4	962.8	..	37.4	22.8	12.8	15.4	24	..	4.1	..	1.8	0	0	18	2	2	1	5	3	0	1	4	12	0	0	0	0		
Mahubnagar	0830	505	1009.9	954.6	..	28.5	22.1	18.7	21.3	56	..	3.2	..	8.4	0	1	24	3	4	4	1	3	5	3	2	5	0	0	0	0		
	1730	"	1003.7	949.9	..	35.3	21.5	13.8	15.7	29	..	3.3	..	6.5	0	1	27	1	3	10	4	5	3	0	2	2	0	12	0			
Hyderabad (Begumpet Aerodrome)	0230	545	1007.9	948.0	..	26.3	20.8	17.7	20.6	60	..	3.8	..	9.3	0	4	14	1	1	4	7	2	2	1	0	12	0	0	0	0		
	0530	"	1008.5	948.4	..	25.3	20.5	17.9	20.6	64	..	4.4	..	7.0	0	1	19	1	0	5	6	2	2	2	2	10	0	0	0	0		
Hakimpet	0830	156	1010.3	950.7	+1.9	28.1	21.3	17.6	20.4	54	..	4.1	+2.0	9.2	0	1	25	5	1	0	5	4	5	2	4	4	0	0	0	0		
	1130	"	1008.8	950.2	..	33.2	21.7	15.2	17.5	35	..	3.0	..	11.4	0	3	26	2	0	4	5	8	6	2	2	1	0	0	0	0		
Hanamkonda	0830	613	1008.2	940.9	..	24.8	20.2	17.5	20.5	65	..	4.0	..	10.6	0	3	19	3	1	0	12	2	2	0	1	8	1	0	0	0		
	1130	"	1009.9	942.9	..	27.3	21.0	17.7	20.0	57	..	3.7	..	12.5	0	6	23	1	3	2	8	4	6	3	1	2	0	0	0	0		
Bhadrachallam	0830	111	1011.4	999.0	..	28.9	24.6	22.6	27.4	69	..	4.9	..	6.6	0	0	29	2	3	1	11	7	2	2	1	1	0	0	0	0		
	1730	"	1005.1	993.1	..	36.4	24.1	17.1	20.0	34	..	3.7	..	8.2	0	2	27	2	2	1	4	12	3	3	2	1	0	0	0	0		
Khammameth	0830	112	1011.2	998.6	..	28.9	25.0	23.2	28.5	71	..	4.3	..	5.8	0	0	27	1	1	5	15	5	0	0	0	0	3	0	0	0	0	
	1730	"	1005.2	993.0	..	37.3	24.7	18.1	20.7	34	..	3.1	..	4.0	0	0	25	0	0	8	12	4	1	0	0	0	5	0	0	0	0	
Rayalaseema																																
Arogavaram	0830	701	1010.5	934.1	..	26.4	22.0	19.9	23.3	69	..	2.9	..	5.2	0	0	28	2	2	1	6	15	1	1	0	2	0	0	0	0	0	
	1730	"	1004.2	929.8	..	32.7	20.8	13.9	15.9	33	..	4.7	..	8.7	0	0	30	1	6	10	11	1	0	0	0	0	0	0	0	0	0	
Cuddapah	0830	130	1010.5	996.0	+1.3	32.2	26.2	23.4	29.1	61	+6	2.0	-0.2	2.6	0	0	13	1	1	5	3	0	0	2	1	17	0	0	0	0	0	
	1730	"	1004.7	990.6	..	37.7	29.3	25.3	34.0	54	..	2.7	..	9.2	0	0	27	0	3	20	4	0	0	0	0	3	0	0	0	0	0	
Anantapur	0530	350	1007.9	968.9	..	26.4	21.8	19.1	22.6	66	..	3.7	..	5.4	0	1	17	0	0	2	2	4	5	5	0	12	0	0	0	0	0	
	0830	"	1009.5	970.9	..	29.6	23.3	20.0	23.7	57	..	3.0	..	6.9	0	1	25	0	0	1	4	4	9	7	1	4	0	0	0	0	0	
Kurnool	0830	281	1010.0	978.8	+1.2	29.9	24.0	21.1	24.7	60	+9	1.7	-0.2	8.4	0	3	26	0	3	13	4	5	2	2	0	1	3	0	0	4	0	
	1730	"	1003.8	973.6	..	37.2	23.9	16.2	18.7	81	..	4.0	..	13.1	0	5	21	1	2	9	9	3	2	0	0	4	0	0	0	0	0	
Madras State																																
Palayamcottai	0830	51	1011.1	1005.3	..	29.8	25.6	23.6	29.4	70	..	4.5	..	4.4	0	0	29	9	0	3	0	1	2	2	1	0	0	0	0	0	0	
	1730	"	1007.0	1001.3	..	31.8	25.1	21.7	26.3	57	..	5.7	..	10.1	0	0	30	0	2	10	11	6	1	0	0	0	0	0	0	0	0	
Tuticorin	0830	4	1011.2	1010.8	..	29.6	26.1	24.6	31.0	74	..	4.2	..	8.6	0	1	29	3	4	5	1	1	6	6	4	0	0	0	0	0	0	
	1730	"	1007.3	1006.9	..	30.6	26.7	25.2	31.8	72	..	3.6	..	18.2	0	2	28	1	0	6	13	1	3	2	1	0	0	0	0	0	0	
Pamban	0830	11	1011.2	1009.9	+1.4	30.3	26.9	25.6	32.9	76	..	3.0	+0.2	4.3	0	0	22	0	0	0	6	13	1	2	0	0	0	0	0	0	0	
	1730	"	1007.5	1006.2	..	30.5	27.0	25.5	31.8	75	..	3.8	..	5.7	1	2	19	1	7	0	7	3	2	0	0	0	0	0	0	0	0	
Mathurai	0830	133	1010.8	995.9	+0.8	29.7	25.6	23.5	29.5	70	+2	4.1	0	3.0	0	0	30															

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—APRIL, 1958, (CHAITRA II—VAISAKHA 10, 1880 SAKA)

Division and station	Hour of observation I.S.T.			Mean pressure in millibars				Mean temperature in °C				Vapour pressure in mb.				Cloud amount (Oktas)				No. of observations																				
	1	2	3	Height of barometer column above mean sea level in metres		At station level		Departure from normal		Dry bulb		Wet bulb		Dew point		Relative humidity %		Departure from normal		Mean amount		Mean wind speed, kms. per hour		Wind speed (kms.p.h.)		Wind direction														
				At mean sea level or height in g.p.m. of nearest standard isobaric level	[standard]	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	Calm	Variable									
Madras State—Contd.	Coimbatore (Peelamedu Aerodrome)	0530	398	1009.2	964.5	..	23.9	22.4	21.8	26.0	88	..	2.7	..	4.5	0	1	16	2	2	2	4	4	0	1	13	0	0	0	0	0	0	0							
		0830	"	1010.6	966.4	..	27.4	23.7	21.9	25.3	72	..	3.2	..	9.8	0	1	27	1	14	7	1	0	3	2	0	1	1	0	0	0	0	0							
		1130	"	1009.6	965.9	..	31.4	24.4	20.5	24.8	53	..	4.3	..	11.0	0	1	28	0	10	8	8	1	1	0	0	0	0	0	0	0	0	0							
		1730	"	1004.6	961.5	..	33.3	23.6	18.2	21.2	42	..	4.3	..	14.0	0	4	26	0	5	3	13	7	1	0	0	0	0	0	0	0	0	0							
		2330	"	1009.9	965.4	..	25.6	23.3	22.1	26.9	82	..	3.3	..	12.8	0	5	18	1	0	0	2	9	6	2	3	5	0	0	0	0	0	0							
		0530	278	1008.8	977.7	..	25.9	24.2	23.4	28.9	86	..	3.1	+0.4	6.6	0	0	28	0	7	8	6	3	3	2	2	0	0	0	13	0	0								
Salem . . .	Salem	0830	"	1010.7	979.8	+0.9	28.5	25.0	23.5	29.4	75	+4	3.1	+0.4	6.6	0	0	28	0	7	8	6	3	3	1	0	2	0	0	0	0	0	0							
		1130	"	1009.8	979.3	..	32.6	25.8	22.5	27.7	56	..	3.6	..	3.4	0	0	21	1	1	5	4	2	3	5	0	9	0	0	0	0	0	0							
		1730	"	1004.9	974.6	..	33.8	26.0	22.4	27.8	54	..	4.8	..	4.4	0	0	23	0	2	11	2	3	4	1	0	7	0	0	0	0	0	0							
		2330	"	1009.6	978.7	..	28.8	25.6	24.2	30.6	77	..	4.1	..	4.5	0	0	21	0	3	8	6	1	2	1	0	9	0	0	0	0	0	0							
		0830	127	1010.9	996.7	..	29.4	26.9	25.6	33.5	81	..	4.0	..	5.7	0	0	28	0	1	1	15	10	1	0	0	2	0	0	0	0	0	0							
		1730	"	1005.5	991.6	..	35.2	29.0	26.3	35.0	63	..	4.0	..	13.9	0	2	28	0	1	9	17	2	1	0	0	0	0	0	0	0	0	0							
Cuddalore . . .	Cuddalore	0530	12	1008.9	1007.6	..	26.3	25.8	25.6	32.7	96	..	4.4	..	0.9	0	0	4	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0							
		0830	"	1010.9	1009.6	+0.8	29.6	27.0	25.9	33.5	81	+6	5.0	+1.6	1.9	0	0	14	0	0	0	4	9	1	0	0	0	0	0	0	0	0	0							
		1130	"	1010.6	1009.3	..	32.3	28.0	26.3	34.2	71	..	3.4	..	6.6	0	0	29	0	0	0	8	18	3	0	0	0	0	1	0	0	0	0							
		1730	"	1007.1	1005.8	..	30.6	27.9	26.9	35.1	81	..	3.3	..	7.4	0	0	30	0	0	0	2	21	7	0	0	0	0	0	0	0	0	0							
		2330	"	1010.0	1008.6	..	28.8	27.3	26.7	34.8	88	..	2.9	..	4.5	0	0	21	0	0	0	2	13	6	0	0	0	0	0	0	0	0	0							
		0530	214	1009.1	985.0	..	25.7	23.5	22.8	27.2	82	..	3.1	..	3.2	0	0	19	0	1	0	3	11	2	1	1	11	0	0	0	0	0	0							
Vellore . . .	Vellore	0830	"	1010.8	987.0	+1.3	28.7	24.2	22.0	26.5	67	-3	3.0	+0.8	3.1	0	0	18	1	1	0	0	10	2	2	12	0	0	0	0	0	0	0	0	0					
		1130	"	1009.7	986.2	..	33.7	24.5	19.9	23.3	45	..	2.6	..	5.2	0	0	26	1	0	3	10	7	3	2	0	4	0	0	0	0	0	0	0	0					
		1730	"	1005.3	982.0	..	35.1	23.4	16.6	19.2	35	..	4.3	..	10.9	0	1	29	0	1	6	19	4	0	0	0	0	0	0	0	0	0	0							
		2330	"	1009.9	986.0	..	28.5	24.1	22.0	26.3	68	..	2.7	..	11.1	0	1	28	1	0	0	13	14	1	0	0	0	0	0	0	0	0	0							
		0230	16	1008.8	1007.1	..	27.7	25.7	25.0	31.4	85	..	2.3	..	2.9	0	0	18	0	0	0	1	10	4	2	1	12	0	0	0	0	0	0							
		0530	"	1009.2	1007.5	..	26.9	25.3	24.6	30.6	87	..	3.8	..	3.0	0	0	16	0	0	0	0	5	6	5	0	14	0	0	0	0	0	0							
Madras . . .	Madras	0830	"	1011.3	1009.6	+1.5	29.9	26.3	24.5	31.5	73	+2	3.9	+0.5	7.3	0	0	29	0	0	0	1	17	7	3	1	1	0	0	0	0	0	0	0						
		1130	"	1010.6	1008.9	..	34.0	26.4	23.0	28.5	53	..	3.6	..	13.1	0	1	29	0	0	0	6	12	9	3	0	0	0	0	0	0	0	0	0						
		1730	"	1007.1	1005.4	..	31.4	26.3	24.0	30.7	65	..	2.9	..	15.4	0	3	27	0	0	0	5	20	4	0	1	0	0	0	0	0	0	0	0						
		2330	"	1010.1	1008.3	..	28.5	26.2	25.2	32.6	82	..	2.1	..	9.0	0	0	30	0	0	0	1	14	14	0	1	0	0	0	0	0	0	0	0						
		0830	6	1010.9	1016.2	..	30.3	26.1	24.2	30.4	70	..	3.1	..	5.9	0	0	27	1	0	0	2	10	11	3	0	3	0	0	0	0	0	0	0	0					
		1730	"	1007.4	1006.9	..	30.3	26.1	24.2	29.9	70	..	4.1	..	2.0	0	0	16	2	3	6	1	0	0	0	0	0	0	0	0	0	0	0	0						
Coastal Mysore	Honavar	0830	4	1010.8	1010.3	..	27.7	24.8	23.4	29.4	77	..	4.1	..	2.0	0	0	16	2	3	6	1	0	0	0	0	0	0	0	0	0	0	0	0						
		1730	"	1007.4	1006.9	..	30.3	26.1	24.2	29.9	70	..	4.4	..	14.6	0	6	24	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0						
		0830	26	1011.0	1008.1	-0.1	27.2	24.6	23.3	28.9	79	+3	5.0	+0.8	0.4	0	0	4	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0					
		1730	"	1007.5	1004.6	..	30.9	26.3	24.3	31.0	68	..	5.3	..	3.9	0	0	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
		0230	22	1009.0	1006.5	..	27.5	24.3	22.8	27.9	76	..	2.6	..	6.3	0	0	21	2	4	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
		0530	"	1009.2	1006.7	..	26.7	24.3	23.2	28.4	81	..	2.5	..	9.4	0	2	27	1	6	18	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Mangalore . . .	Mangalore (Bajpe Aerodrome)	0830	"	1011.1	1008.6	+0.7	29.0	25.1	23.3	28.6	71	0	2.4	-1.1	5.4	0	0	27	5	4	14	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

(b) Mean of 29 days.

(c) Mean of 28 day.

TABLE III--SUMMARY OF OBSERVATIONS AT FIXED HOURS—APRIL, 1958 (CHAITRA 11—VAISAKHA 10, 1880 SAKA)

Division and station	Hour of observation on I.S.T.	Height of barometer cistern above mean sea level in inches	Mean pressure in millibars			Mean temperature in °C			Mean vapor pressure in mb	% relative humidity	Departure from normal	Cloud amount (Octas)	Wind speed (kms.p.h.)	No. of observations																		
			At mean sea level or height in ft.p.m. of nearest standard barometer level	At station level	Departure from normal	Dew point	Dry bulb	Wet bulb						N	NE	E	SE	S	SW	W	NW	Calm	Variable									
	2	3	4	5	6	7	8	9						10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1																																
Mysore (North) —Contd.																																
Belgaum (Sambre Aerodrome)	0530	761	1009.6	925.7	..	21.4	19.6	18.6	21.6	84	..	2.6	..	1.2	0	0	7	0	1	0	2	0	2	1	1	23	0					
	0830	"	1010.5	927.6	..	25.4	21.1	18.7	22.1	67	..	2.5	..	3.4	0	0	14	1	2	0	1	1	0	5	4	16	0					
	1130	"	1008.7	927.4	..	30.2	22.4	18.2	21.4	47	..	2.0	..	(b)	0	2	18	5	5	1	2	0	2	1	3	9	1					
	1730	"	1004.7	923.7	..	30.6	23.0	19.2	23.3	53	..	4.3	..	12.6	0	2	26	0	5	1	1	1	7	8	5	2	0					
Gadag	0830	650	1010.3	939.3	+0.7	26.7	22.3	20.2	23.6	68	+2	2.6	+0.8	6.6	0	0	28	2	1	1	2	3	6	11	2	2	0					
Gadag (P.B.O.)	0530	661	1009.0	936.3	..	23.6	21.3	20.4	23.7	82	..	2.5	..	9.8	0	0	26	0	0	3	0	0	0	12	11	0	4	0				
	0830	"	1010.2	938.0	..	26.4	22.1	20.3	23.4	70	..	2.3	..	6.0	0	0	19	0	0	2	0	0	0	11	5	1	11	0				
	1130	"	1008.5	937.7	..	32.1	22.7	18.9	20.7	46	..	1.9	..	6.5	0	1	20	2	3	2	2	0	3	8	1	9	0					
	1730	"	1003.7	933.6	..	33.3	21.6	16.1	17.2	37	..	5.4	..	9.6	0	2	22	0	1	10	5	3	2	1	2	6	0					
Raichur.	0830	400	1009.9	966.0	+1.3	30.2	23.6	20.5	23.5	57	+6	2.1	+0.4	5.6	0	1	26	2	4	4	6	3	5	3	0	3	0					
	1730	"	1003.9	961.1	..	36.7	24.3	17.6	20.7	33	..	3.6	..	4.6	0	0	28	2	6	10	8	1	0	1	0	2	0					
Mysore (South)																																
Bellary	0830	449	1009.6	960.3	+0.9	28.9	22.7	19.3	22.6	57	+7	2.2	+0.1	2.7	0	0	20	0	3	0	5	0	4	0	8	0	0	0				
	1730	"	1003.2	955.3	..	35.8	23.0	14.9	17.7	32	..	4.8	..	3.4	0	0	27	0	2	0	16	0	1	0	8	3	0					
Chitaldrug	0830	733	1010.2	933.3	+0.8	25.8	21.2	18.7	22.0	46	+4	5.2	+2.8	5.9	0	0	25	1	1	2	3	0	11	7	0	5	0					
	1730	"	1003.6	925.9	..	32.9	20.6	12.8	15.2	32	..	6.6	..	4.2	0	0	28	1	6	4	6	2	4	0	5	2	0					
Shimoga	0830	571	1010.7	947.8	..	25.8	22.5	20.9	24.9	74	..	2.4	..	1.1	0	0	7	0	0	0	0	2	4	1	0	23	0					
	1730	"	1004.6	943.2	..	31.4	22.7	18.0	21.5	48	..	5.3	..	8.0	0	0	27	3	3	2	1	3	6	7	2	3	0					
Balehonnur	0830	21.7	20.4	19.7	23.2	89				
Hassan	0830	960	1521.8	906.9	..	23.2	20.5	19.1	22.2	78	+7	3.2	+0.5	4.6	0	0	20	4	0	0	1	1	5	8	1	10	0					
	1730	"	1497.4	903.3	..	29.1	20.8	16.4	18.6	49	..	5.5	..	7.1	0	0	27	1	1	9	2	2	2	8	2	3	0					
Mysore	0830	767	1011.1	927.1	+0.7	24.3	21.3	19.5	23.5	76	+4	3.2	-0.2	5.3	0	0	28	5	3	1	2	2	8	3	4	2	0					
	1730	"	1004.5	923.1	..	31.8	20.7	13.8	16.3	35	..	5.0	..	4.3	0	4	26	6	6	8	5	2	1	2	0	0	0					
Bangalore (Central Observatory)	0230	921	1501.2	908.9	..	23.1	20.0	18.2	21.2	74	..	2.5	..	9.3	0	1	25	1	0	7	7	1	5	4	1	4	0					
	0830	"	1524.8	910.9	+0.9	25.1	21.1	18.9	22.1	69	..	3.2	+0.6	9.3	0	0	30	2	1	2	2	6	9	5	3	0	0					
	1130	"	1531.3	910.6	..	29.8	21.3	16.7	19.2	46	..	3.7	..	8.6	0	0	27	2	2	7	5	1	4	4	2	3	0					
	1730	"	1495.9	906.9	..	30.0	19.9	13.4	15.9	40	..	5.7	..	10.0	0	1	29	1	2	12	8	1	2	2	3	0						
Bangalore (Aero-drome)	0530	897	1502.1	911.7	..	22.5	20.1	18.8	21.9	80	..	2.9	..	5.7	0	0	14	0	0	1	3	4	4	1	1	16	0					
	0830	"	1526.2	913.3	..	25.3	21.3	19.3	22.8	69	..	3.0	..	9.5	0	1	20	2	0	0	3	4	5	7	0	9	0					
	1130	"	1533.8	913.3	..	30.3	21.5	16.7	18.9	45	..	3.9	..	7.9	0	0	18	0	1	2	5	3	3	3	1	12	0					
	1730	"	1498.7	909.4	..	31.3	20.6	14.0	16.9	38	..	5.7	..	14.5	0	2	26	1	1	11	10	2	0	2	1	2	0					
	2330	"	1520.2	912.9	..	25.5	20.4	17.5	20.4	63	..	4.1	..	10.1	0	2	20	0	1	4	9	4	1	2	1	8	0					
Kerala																																
Kozhikode	0530	5	1009.4	1008.9	..	26.6	24.5	23.7	29.0	84	..	3.8	..	4.4	0	0	29	2	17	9	1	0	0	0	0	1	0	0	1	0		
	0830	"	1011.0	1010.5	+0.8	29.3	25.8	23.6	29.1	71	-6	3.3	-0.6	4.9	0	0	30	8	7	14	0	0	0	0	1	0	0	1	0			
	1130	"	1011.1	1010.6	..	32.5	27.0	24.8	31.2	64	..	3.9	..	7.2	0	0	30	0	0	0	0	0	0	0	0	8	17	5	0	0		
	1730	"	1007.8	1007.3	..	31.7	27.1	25.1	32.1	69	..	4.9	..	12.5	0	0	30	2	1	0	0	0	0	0	0	0	10	17	0	0		
	2330	"	1010.6	1010.1	..	29.1	25.7	24.3	30.0	76	..	4.1	..	7.8	0	0	30	4	4	4	2	1	1	7	7	0	0	0	0			
Palghat	0830	97	1011.2	1000.3	..	28.4	25.3	23.8	29.4	76	..	3.1	..	3.7	0	0	24	0	1	6	0	0	0	1	16	0	6	0	6	0		
	1730	"	1006.2	994.8	..	32.6	25.7	22.5	27.6	56	..	5.9	..</td																			

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—APRIL, 1958 (CHAITRA II—VAISAKHA 10, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Octas)		Wind speed (kms.p.h.)	No. of observations													
			At mean sea level or height in ft.p.m. of nearest standard isobaric level			At station level						Dry bulb	Wet bulb	Dew point	Mean amount	Departure from normal	Mean wind kms. per hour	N	NE	E	SE	S	SW	W	NW	Calm	Variable	
	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
Kerala—Contd.																												
Trivandrum	0230	64	1008.8	1001.5	..	25.9	24.6	24.0	30.1	89	..	2.6	..	4.5	0	0	30	10	8	7	0	0	0	1	4	0	0	
	0530	"	1009.0	1001.7	..	25.2	24.4	23.9	30.3	91	..	2.9	..	4.3	0	0	26	9	10	6	0	0	0	0	1	4	0	
	0830	"	1010.8	1003.5	+0.6	27.5	25.3	24.3	30.4	84	+5	3.8	-0.1	3.6	0	0	25	5	8	6	1	0	0	0	5	5	0	
	1130	"	1010.4	1003.2	..	31.9	26.2	23.6	29.2	62	..	5.3	..	5.0	0	0	26	3	1	3	2	2	6	5	4	4	0	
	1730	"	1007.5	1000.3	..	30.6	25.8	23.9	29.7	70	..	5.3	..	8.1	0	0	30	1	3	4	3	3	6	5	5	0	0	
	2330	"	1010.5	1003.4	..	26.6	24.9	24.1	30.1	86	..	3.8	..	5.6	0	0	28	7	11	2	2	1	0	0	5	2	0	
Trivandrum (Acrodrome)	0830	8	1010.9	1010.0	..	28.5	25.5	24.1	30.2	78	..	4.7	..	4.6	0	0	28	6	2	1	0	9	5	2	3	2	0	
Arabian Sea Islands Minicoy*	0530	2																										
	0830	"																										
	1130	"																										
	1730	"																										
	2330	"																										
Amini Divi*	0830	4																										
Hill Stations excluding Kashmir																												
Walong . . (R)	0830																											
	1730																											
Kohima . . .	0830	1406	1547.1	864.4	..	19.8	14.7	10.6	13.1	59	..	4.3	..	..	0	0	30	14	0	4	5	1	0	4	2	0	0
	1730	"	1500.2	859.4	..	20.8	17.9	15.8	18.5	76	..	3.9	..	..	0	0	30	1	0	2	2	3	.8	5	9	0	0
Aijal . . .	0830	1097	..	..	..	22.7	17.9	15.0	17.2	63	..	2.3	..	7.6	0	1	27	0	0	7	0	7	6	7	1	2	0
	1730	"	..	..	..	25.2	18.6	15.2	16.5	55	..	4.4	..	13.2	0	2	27	1	0	0	1	1	9	17	0	1	0
Shillong . . .	0830	1500	1506.6	850.9	+1.4	20.3	15.6	12.3	14.3	61	+7	3.5	+0.3	3.8	0	0	16	0	0	0	0	0	0	13	2	0	14	0
	1730	"	1479.2	848.2	..	20.3	16.3	13.2	15.8	66	..	5.1	..	2.1	0	0	11	0	0	0	0	0	0	9	2	0	19	0
Cherrapunji . . .	0830	1313	1510.9	869.9	+1.2	19.7	18.2	17.1	19.7	86	+12	3.3	-1.5	3.5	0	0	30	0	0	0	2	1	25	1	1	0	0	
	1730	"	1487.6	867.4	..	20.4	17.8	16.6	18.5	82	..	2.9	..	3.7	0	0	30	0	0	0	0	0	29	0	1	0	0	
Darjiling (Raj-Bhawan).	0830	2127	1526.2	792.9	+4.6	16.7	13.7	11.4	13.7	72	+7	4.3	+0.4	1.3	0	0	11	0	0	0	0	0	5	3	3	19	0	
	1730	"	1499.7	790.6	..	14.7	12.8	11.2	13.5	82	..	6.1	..	5.4	0	2	19	1	1	0	0	0	0	11	8	0	9	0
Kalimpong . . .	0830	1209	1480.4	878.2	-0.5	16.3	14.8	14.3	16.0	85	+20	2.2	-0.3	2.9	0	0	29	0	0	0	0	0	28	1	0	1	0	
	1730	"	1472.4	878.5	..	16.4	15.0	14.6	16.1	85	..	2.6	..	2.9	0	0	29	0	0	0	0	0	28	0	0	1	0	
Katmandu . . .	0830	1337	1523.2	868.6	..	20.2	15.3	11.8	13.6	60	+5	1.9	+0.6	0.4	0	0	4	1	0	1	1	1	0	0	0	26	0	
	1730	"	1491.3	865.1	..	25.9	17.6	11.8	14.1	44	..	4.4	..	2.6	0	0	22	3	0	0	1	3	7	3	5	8	0	
Mukteswar (Kumaon)	0830	2311	3166.9	774.6	+1.9	16.3	9.4	2.4	7.6	41	+4	1.5	-0.7	8.6	0	2	25	0	3	4	1	0	3	9	7	3	0	
	1730	"	3153.1	772.6	..	18.9	11.3	4.5	8.7	40	..	2.4	..	20.1	0	15	15	0	1	1	0	0	0	5	14	9	0	0
Nainital . . .	0830	1953	1496.6	806.2	..	19.2	11.9	5.1	9.6	42	..	2.3	..	2.8	0	0	17	2	3	6	3	0	0	2	1	13	0	
	1730	"	1466.8	804.0	..	20.5	13.4	7.2	10.7	45	..	1.7	..	7.0	0	0	29	7	1	5	2	0	1	10	3	1	0	
Tapoban . . .	0830	..	..	..	..	14.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Badrinath . . .	0830																											
Lokpal . . (R)	0830																											
Mussooree . . .	0830	2042	1487.7	797.4	+0.2	18.9	12.4	7.6	10.4	48	+4	1.7	-9.6	1.8	0	0	17	3	2	0	2	5	4	0	1	13	0	
	1730	"	1469.6	796.1	..	20.5	14.1	9.2	12.0	50	..	3.8	..	3.9	0	0	27	4	3	1	5	7	6	0	1	3	0	
Simla . . .	0830	2202	1494.7	783.4	+2.1	17.9	9.1	-0.7	5.7	30	-3	2.2	-0.5	2.0	0	0	17	2	2	1	4	3	1	0	4	13	0	
	1730	"	1478.0	782.1	..	19.1	10.3	1.0	6.6	33	..	3.1	..	4.0	0	0	30	2	4	0	2	6	9	3	4	0	0	
Dalhousie . . .	0830	1959	1451.7	801.4	..	17.4	11.0	4.9	8.9	47	..	0.9	..	1.9	0	0	6	0	6	0	0	0	0	0	0	24	0	
	1730	"	1443.5	801.2	..	20.4	13.0	7.4	10.0	44	..	1.0	..	1.0	0	0	6	1	5	0	0	0	0	0	0	24	0	
Dharamshala . . .	0830	1211	1537.0	882.4	..	23.2	14.6	7.4	10.5	37	..	2.8	..	2.4	0	0	20	12	5	1	0	0	2	0	0	10	0	
	1730	"	1530.7	881.4	..	27.3	16.6	7.4	10.8	30	..	3.6	..	3.9	0	0	29	1	3	1	0	4	17	3	0	1	0	
Abu . . .	0830	1195	1518.2	882.2	+1.1	24.8	15.3	6.8	10.8	34	+6	1.4	+0.2	5.0	0	0												

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—APRIL, 1958 (CETA TRAI 11-VISAKHA 10, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mb	Relative humidity %	Departure from normal	Cloud amount (Octas)	Wind speed (kms.p.h.)	No. of observations														
			At mean sea level	or height in ft. m. of nearest standard isobaric level	At station level	Departure from normal	Dry bulb	Wet bulb	Dew point	At mean sea level	Departure from normal	Mean amount	Departure from normal	Mean wind speed kms. per hour	N	NE	E	SE	S	SW	W	NW	Calm	Variable				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
Hill Stations excluding Kashamir—contd. Kodaikanal—Contd.	1130	2343	3186.7	773.4	..	18.2	14.1	11.2	13.3	65	..	5.2	..	6.0	0	0	29	0	12	5	11	0	0	0	1	1	0	
	1730	"	3156.2	771.3	..	15.6	13.8	12.6	14.6	83	..	6.0	..	5.2	0	0	26	5	8	4	8	1	0	0	0	4	0	
	2330	"	3165.3	772.9	..	13.0	11.9	11.1	13.4	90	..	5.8	..	6.0	0	0	27	3	9	3	10	2	0	0	0	0	3	0
Ootacamund . .	0830	2249	1521.2	781.2	+1.4	15.4	11.9	9.9	11.8	69	+12	1.8	-1.2	3.2	0	0	10	0	10	0	0	0	0	0	0	20	0	
Ootacamund . .	1730	"	1493.9	779.4	..	18.3	14.5	11.9	14.2	68	..	5.8	..	1.2	0	0	7	1	4	2	0	0	0	0	0	0	23	0
Coonoor . .	0830	1747	1521.3	828.5	..	19.6	16.0	13.8	15.8	70	+7	2.5	-1.3	1.8	0	0	15	1	2	1	4	7	0	0	0	0	15	0
Sikkim																												
Lachen . . *	0830
Tibet																												
Yatung (Chumbi) .	0830	..	..	..	..	7.4	6.7	6.0	9.3	92	+10	0	-2.7	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lhasa . .	0830	3685	3108.0	653.8	..	10.3	5.8	1.2	6.4	54	..	2.1	..	3.6	0	0	25	0	4	0	6	2	7	0	6	5	0	
Ceylon																												
Colombo . .	0830	7	1011.1	1010.3	+0.6	27.7	25.5	24.7	30.8	84	-3	4.1	-0.8	5.4	0	0	27	1	4	11	9	1	1	0	0	3	0	
Colombo . .	1730	"	1008.1	1007.3	..	29.3	25.7	24.2	30.1	74	..	6.7	..	10.1	0	1	28	1	2	3	2	2	8	3	1	0		
Trincomalee . .	0830	3	1011.0	1010.7	+1.7	29.0	26.2	24.9	31.6	79	-3	2.7	-0.4	4.4	0	0	23	1	0	3	0	8	9	1	1	7	0	
Trincomalee . .	1730	"	1007.7	1007.3	..	30.4	26.6	25.0	32.2	73	..	4.9	..	5.9	0	0	29	3	9	7	10	0	0	0	0	1	0	
Batticaloa . .	0830	3	1011.2	1010.9	..	28.3	26.2	25.1	32.4	84	..	3.8	..	4.2	0	0	25	0	0	1	0	4	6	8	6	5	0	
Batticaloa . .	1730	"	1008.0	1007.6	..	29.7	26.7	25.6	31.9	77	..	4.6	..	9.3	0	7	22	0	7	12	9	1	0	0	0	1	0	
Hambantota . .	0830	15	1011.2	1009.5	+1.5	28.0	25.8	24.6	31.5	83	-3	3.9	+0.4	11.0	0	7	20	0	3	3	11	3	5	1	1	3	0	
Hambantota . .	1730	"	1008.1	1006.4	..	29.4	25.0	22.9	28.1	68	..	6.0	..	18.4	0	11	19	2	6	6	6	8	2	0	0	0	0	0
Mannar . .	0830	4	1011.3	1010.9	..	27.9	25.4	24.5	30.2	81	..	4.4	..	5.4	0	0	30	0	1	3	21	5	0	0	0	0	0	0
Mannar . .	1730	"	1007.2	1007.1	..	30.3	26.4	24.4	31.2	72	..	6.1	..	5.2	0	1	28	3	6	1	4	3	5	3	4	1	0	
Hydrometeorological Observatories Damodar Catchment																												
Bokaro . .	0830	239	1008.7	982.0	..	31.2	20.6	12.7	15.7	35	..	3.2	..	5.3	0	0	29	1	0	0	6	4	9	2	5	1	2	
Bokaro . .	†1730	"	1003.5	977.4	..	36.3	20.7	7.6	11.7	22	..	4.0	..	11.0	0	3	25	5	0	4	4	0	0	5	9	0	1	
Hazaribagh . .	0830	615	1011.8	944.4	..	27.0	20.4	16.0	18.6	52	..	1.3	..	4.5	0	0	22	0	0	2	5	3	4	7	1	8	0	
Hazaribagh . .	1730	"	1007.6	940.4	..	26.8	19.8	14.8	17.4	50	..	1.1	..	9.5	0	0	29	0	0	3	5	3	12	5	1	1	0	
Tilaiya . .	0830	..	..	..	..	31.2	19.3	9.5	12.7	30	..	1.9	..	8.0	0	2	20	0	0	1	3	1	2	6	5	8	4
Tilaiya . .	1730	..	..	..	..	35.2	19.4	4.0	9.6	19	..	3.4	..	12.7	0	3	26	5	0	1	2	0	0	4	13	1	4
Ramgarh . .	0830	..	..	..	..	31.6	20.9	13.5	16.1	36	..	2.6	..	4.7	0	0	29	0	0	3	5	3	12	3	1	0	
Ramgarh . .	1730	..	..	..	..	35.6	21.5	11.1	14.2	27	..	4.2	..	5.0	0	1	23	0	0	2	2	2	0	1	10	9	6
Panchet Hills . .	0830	..	..	..	..	31.2	21.6	14.6	17.9	42	..	2.5	..	5.2	0	0	30	0	2	5	1	0	20	1	1	0	
Panchet Hills . .	1730	..	..	..	..	36.1	21.5	9.9	13.8	25	..	3.4	..	6.4	0	0	30	3	2	3	3	4	10	1	4	0	
Durgapur . .	0830	..	..	..	..	31.9	24.7	21.0	25.9	55	..	2.0	..	15.1	0	7	21	1	3	0	0	7	3	5	9	2	0
Durgapur . .	1730	..	..	..	..	37.1	23.5	14.5	17.8	28	..	2.3	..	13.0	0	3	25	2	1	1	2	8	5	3	6	2	0
Mahanadi Catchment																												
Baramul . .	0830	64	1009.1	1002.0	..	30.9	25.8	23.5	29.8	65	..	2.9	..	3.7	0	0	15	1	5	0	4	1	4	0	0	15	0	
Baramul . .	1730	"	1004.9	997.8	..	35.3	16.9	23.2	28.1	51	..	5.0	..	3.7	0	0	14	0	4	0	4	0	2	6	0	0	16	0
Hirakud . .	0830	159	1009.3	991.7	..	31.1	22.9	18.3	20.9	47	..	2.3	..	4.3	0	0	25	2	0	3	1	8	7	3	1	5	0	
Hirakud . .	1730	"	1003.6	986.4	..	37.5	23.8	15.9	18.0	29	..	1.7	..	2.7	0	1	15	2	0	2	1	4	1	5	1	14	0	
Khijrawan . .	0830	..	..	..	..	32.3	21.3	14.0	16.4	35	..	0.7	..	..	..	..	..	3	2	1	0	2	9	4	0	0	0
Khijrawan . .	**1730	..	..	..	..	35.3	21.4	11.9	14.3																		

TABLE III--SUMMARY OF OBSERVATIONS AT FIXED HOURS--APRIL, 1958 (CHAITRA 11—VAISAKHA 10, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs	Relative humidity %	Cloud amount (Oktas)		Wind speed (kms.p.h.)	No. of observations															
			At mean sea level or height in span of nearest standard isobaric level			At station level					Departure from normal			Departure from normal		Wind direction													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
Hydrometeorological Observatories—Contd.																													
Ganga Catchment	Mukhini	0830	..	..	..	..	..	..	..	18.5	11.2	5.4	8.9	43	..	1.6	..	..	..	..	..	..	..	..	..	..	..	..
Tehri*		1730	..	..	..	..	..	..	..	19.5	11.6	4.6	8.4	37	..	2.3	..	..	..	..	..	..	..	..	..	..	..	..
Gandak Catchment	Gorkha	0830	..	..	..	..	..	..	..	21.9	16.0	10.9	13.9	52	..	1.3	..	..	..	..	..	..	..	..	..	..	..	..
Pokhara		1730	..	..	..	..	..	..	..	31.9	18.9	11.6	12.3	30	..	1.9	..	..	..	..	..	..	..	..	..	..	..	..
Nawakot		0830	..	..	..	..	..	..	..	23.1	16.5	12.0	14.0	49	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Jomsom		1730	..	..	..	..	..	..	..	25.5	16.7	10.1	12.5	38	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Timure		0830	..	..	..	..	..	..	..	23.8	17.6	13.7	16.3	52	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dailekh		1730	..	..	..	..	..	..	..	25.5	18.7	15.3	16.8	51	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gogra Catchment (Trans Himalayan Region)	Dandeldhura	0830	..	..	..	..	..	..	..	18.2	12.0	7.0	10.0	48	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sallyana		1730	..	..	..	..	..	..	..	21.4	13.1	6.4	9.7	38	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Butwal		0830	..	..	..	..	..	..	..	22.3	14.7	8.7	11.2	41	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bagmati Catchment	Katmandu	0830	1333	1514.5	868.3	..	19.2	14.7	11.1	13.5	61	..	1.9	..	0.4	0	0	4	1	0	1	1	1	0	0	0	26	0	
		1130	"	1505.9	867.3	..	27.1	16.4	7.0	11.0	31	..	2.5	..	3.3	0	0	23	4	0	1	1	2	6	3	5	7	1	
		1730	"	1483.7	864.9	..	24.4	16.1	9.5	12.3	43	..	4.4	..	2.6	0	0	22	3	0	0	1	3	7	3	5	8	0	
Kosi Catchment	Chautara	0830	..	..	..	..	..	..	..	20.3	14.4	10.3	12.7	54	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Okhaldunga	(R)	0830	..	..	..	..	..	..	..	23.9	15.1	9.1	11.5	38	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Barahkshetra	(R)	1130	..	..	..	..	..	..	..	27.7	20.6	15.4	18.3	51	..	2.3	..	8.3	0	0	0	29	0	4	1	0	1	0
	(R)	1730	..	..	..	..	..	..	..	32.2	22.4	16.5	19.2	41	..	2.7	..	15.3	0	6	24	0	0	1	1	0	13	4
Angbung		0830	146	1009.7	993.3	..	31.6	22.1	16.0	18.9	43	..	3.8	..	9.3	0	2	24	0	2	4	3	0	9	8	0	4	0	
Taplejung		1130	..	..	..	..	..	..	..	19.4	16.6	14.9	16.8	75	..	..	..	..	..	..	..	..	..	..	..	..	..	..
		1730	..	..	..	..	..	..	..	21.4	15.3	11.3	13.5	54	..	5.0	..	..	..	..	..	..	..	..	..	..	..	..
Taplethok		0830	..	..	..	..	..	..	..	17.9	14.3	11.5	13.8	68	..	6.6	..	..	..	..	..	..	..	..	..	..	..	..
Wallungchung Gola(R)		0830	..	..	..	..	..	..	..	18.9	16.4	15.0	16.8	77	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhojpur	(R)	1730	..	..	..	..	..	..	..	19.7	14.7	11.4	13.5	59	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chainpur		0830	..	..	..	..	..	..	..	19.5	14.2	10.4	12.8	56	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tista Catchment	Gangtok	0830	1812	1509.4	820.4	..	15.7	13.1	11.3	13.3	76	..	3.7	..	1.7	0	0	15	3	5	1	0	3	1	1	1	15	0	
		1130	"	1497.8	820.0	..	19.5	15.6	13.1	15.3	68	..	4.3	..	3.8	0	0	27	0	0	0	2	13	11	1	0	3	0	
Geyzing		1730	16.0	14.0	12.6	14.7	82	..	6.8	..	5.4	0	1	23	1	4	0	8	7	1	1	1
		0830	..	..	..	..	..	..	..	18.2	15.4	13.8	15.8	76	..	..	..	..	..	..	..	..	..	..	..	..	..	..
		1730	..	..	..	..	..	..	..	19.0	16.3	14.8	16.8	77	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(R) Register not received.

*Observations for 22 days.

MONTHLY MEANS OF UPPER WINDS

APRIL 1958 (CHAITRA 11—VAISAKHA 10, 1880 SAKA)

During the month, observations of velocity and direction of upper winds were made at 55 stations in India. Out of these, at 43 stations all the observations were taken by means of pilot balloons and at 12 stations some observations were made by means of pilot balloons while the other observations by the radiowind method. Particulars of the stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the table overleaf. All radiowind ascents have been indicated by means of an asterisk (*) against the scheduled hours.

Data from ascents made at the scheduled time or within two hours on either side of the scheduled times of regular observations have been used for averaging.

Data upto 9.0 km. a.m.s.l. are given under Table IV and data above 9.0 km. a.m.s.l. under Table V.

In Tables IV and V :

n—represents the number of observations ;

V—represents the mean wind speed in knots irrespective of direction ;

v—represents the resultant mean velocity in knots ;

D—represents the direction of the resultant mean wind in degrees East of North.

Mean and resultant winds are given in this publication for the following heights :

Surface, 0.15 km.a.g., 0.3, 0.6, 0.9, 1.5, 2.1, 3.0, 3.6, 4.5, 5.4, 6.0, 7.2, 9.0, 10.5, 12.0, 14.1, 16.2, 18.0, 21.0, 24.0, 27.0, 30.0, 33.0 and 36.0 km. a.m.s.l. Of these, the levels 1.5, 3.0, 5.4, 7.2, 9.0, 12.0, 14.1 and 16.2 km. a.m.s.l. are considered as the best approximations to the standard pressure levels 850, 700, 500, 400, 300, 200, 150 and 100 mb respectively.

PARTICULARS OF PILOT BALLOON AND RAWIN STATIONS IN INDIA

197

Station	Lat. N	Long. E	Height of Anemometer head a.m.s.l. in metres	Date of opening	Approximate times of flight (IST)			
1. Agartala	23°53'	91°15'	17	28th Nov. 1951	0530	1130	1730	2330
2. Ahmedabad	23°04'	72°38'	61	19th May 1928	0530	1730	2330	
3. Amausi	26°45'	80°53'	132	20th Nov. 1950	0530	1730	2330	
4. Ambala	30°23'	76°46'	279	1st Apr. 1941	0530	1730	2330	
5. Amritsar	31°38'	74°52'	243	21st Jun. 1957	0530*	1730*		
6. Anantapur	14°41'	77°37'	364	12th Feb. 1946	0530	1730	2330	
7. Asansol	23°41'	86°59'	135	29th May 1942	0530	1130	1730	2330
8. Baghdogra	26°38'	88°19'	140	7th Jun. 1953	0530	1130	1730	2330
9. Bairagarh	23°17'	77°21'	532	26th Feb. 1943	0530	1730	2330	
10. Bamrauli	25°27'	81°44'	103	28th Feb. 1930	0530*	1130	1730*	2330
11. Bangalore	12°58'	77°35'	936	19th May 1915	0530	1730	2330	
12. Bartilly	28°22'	79°24'	180	12th Jan. 1943	0530	1730		
13. Begumpet	17°27'	78°28'	543	1st Sep. 1929	0530	1730	2330	
14. Bhagalpur	25°14'	86°57'	61	29th May 1950	0530	1130	1730	
15. Bhubaneshwar	20°15'	85°50'	55	5th Dec. 1942	0530	1130	1730	2330
16. Bhuj	23°15'	69°48'	111	14th Sep. 1937	0530	1730	2330	
17. Bikaner	28°00'	73°18'	229	18th Oct. 1946	0530	1730	2330	
18. Chikalthana	19°51'	75°24'	583	7th Oct. 1951	0530	1730	2330	
19. Cochin†	09°56'	76°14'	3	16th Mar. 1942	0530	1730	2330	
20. Darjeeling	27°03'	88°16'	2115	21st May 1956	0530	1730		
21. Dum Dum	22°39'	88°27'	13	14th May 1921	0530*	1130	1730*	2330
22. Gadag	15°25'	75°38'	650	3rd May 1943	0530	1730	2330	
23. Gannavaram	16°32'	80°48'	34	8th Apr. 1942	0530	1730	2330	
24. Gauhati	26°05'	91°43'	51	12th Mar. 1955	0530*	1130	1730*	2330
25. Gaya	24°45'	84°57'	119	19th Mar. 1937	0530	1130	1730	2330
26. Gopalpur	19°16'	84°53'	24	15th Feb. 1946	0530	1730	2330	
27. Gorakhpur	26°45'	83°22'	83	5th Jan. 1943	0530	1730		
28. Gwalior	26°14'	78°15'	208	7th May 1938	0530	1730	2330	
29. Imphal	24°51'	93°58'	805	8th Mar. 1952	0530	1130	1730	2330
30. Jabalpur	23°10'	79°57'	402	30th Jul. 1928	0530	1730	2330	
31. Jagadalpur	19°05'	82°02'	562	25th Mar. 1948	0530	1730	2330	
32. Jaipur	26°49'	75°48'	404	6th Jun. 1953	0530	1730		
33. Jamshedpur	22°49'	86°11'	147	23rd Jul. 1942	0530	1130	1730	
34. Jharsuguda	21°55'	84°05'	240	1st May 1944	0530	1730	2330	
35. Jodhpur	26°18'	73°01'	229	15th Oct. 1934	0530*	1130	1730*	2330
36. Madras	13°00'	80°11'	29	8th Apr. 1926	0530*	1130	1730*	2330
37. Mangalore	12°52'	74°51'	40	4th Jun. 1928	0530	1730	2330	
38. Minicoy	08°18'	73°00'	16	14th Apr. 1941	0530	1730	2330	
39. Mohanbari	27°29'	95°01'	112	1st Jun. 1948	0530	1130	1730	2330
40. Mussoorie	30°27'	78°05'	2050	3rd Nov. 1955	0530	1730		
41. Nagpur	21°06'	79°03'	316	23rd Apr. 1943	0530*	1130	1730*	2330
42. Nanpara	27°50'	81°30'	142	23rd Apr. 1957	0530	1730		
43. New Delhi	28°35'	77°12'	227	20th Oct. 1936	0530*	1130	1730*	2330
44. Poon†	18°32'	73°51'	593	5th Jan. 1925	0530	1730	2330	
45. Port Blair	11°40'	92°43'	93	29th Oct. 1945	0530*	1130	1730*	2330
46. Raipur	21°14'	81°39'	308	15th Jul. 1944	0530	1730	2330	
47. Raxaul	26°59'	84°51'	83	28th Oct. 1957	0530	1730		
48. Santa Cruz	19°07'	72°51'	14	14th May 1933	0530*	1130	1730*	2330
49. Tezpur	26°37'	92°47'	79	12th Aug. 1932	0530	1130	1730	2330
50. Tiruchirapalli	10°46'	78°43'	96	22nd Jun. 1936	0530	1730	2330	
51. Trivandrum	08°29'	76°57'	73	8th Dec. 1928	0530*	1130	1730*	2330
52. Udaipur	24°35'	73°42'	587	24th Jun. 1947	0530	1730	2330	
53. Vengurla	15°52'	73°38'	8	22nd Nov. 1941	0530	1730	2330	
54. Veraval	20°54'	70°22'	17	13th Oct. 1941	0530*	1130	1730*	2330
55. Visakhapatnam	17°43'	83°14'	10	24th Sep. 1928	0530	1730	2330	

*Radiowind ascents.

†Naval Meteorological Office.

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km, above mean sea level

April, 1958 (CHAITRA 11—VAISAKHA 10, 1880 SAKA)

Station	AGARTALA								AHMEDABAD																
	0530				1130				1730				2330				0530				1730				
Time in I. S. T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Ht. in Km.																									
Surface .	30	3·0	2·4	140	30	4·0	3·3	187	30	5·0	3·4	171	30	5·7	4·7	161	30	5·2	4·1	291	30	6·6	4·9	285	
0·15 a. g. .	29	10·7	9·0	160	30	7·6	7·0	190	30	14·4	9·8	182	30	14·6	12·5	177	30	17·0	13·8	301	30	9·4	7·8	283	
0·3 a. m. s. l. .	29	12·3	10·3	185	30	7·4	6·4	187	30	13·8	10·4	187	30	15·6	14·0	187	30	20·1	16·7	307	30	9·6	8·2	280	
0·6 ., .	29	12·5	10·7	197	30	8·6	7·6	192	30	14·5	11·1	189	30	13·7	12·4	201	30	20·4	17·3	310	30	9·3	8·1	284	
0·9 ., .	27	12·5	10·7	218	30	10·7	9·8	204	29	13·3	12·3	200	28	11·6	10·4	216	30	15·8	13·3	303	30	9·6	8·6	285	
1·5 ., .	25	13·4	12·1	253	25	12·7	11·4	224	27	12·0	11·2	235	28	12·1	11·0	245	30	10·6	6·9	286	30	9·8	8·7	281	
2·1 ., .	25	16·3	14·4	257	19	14·7	13·7	238	25	13·1	12·2	264	27	15·0	13·3	274	30	10·5	5·1	256	29	9·9	8·3	276	
3·0 ., .	22	19·9	17·6	275	11	20·2	17·1	263	24	15·6	13·5	282	26	17·5	16·1	286	28	14·3	6·5	219	29	13·1	7·6	264	
3·6 ., .	19	20·9	18·4	280	2	18·5	16·3	260	19	17·1	15·4	281	17	16·9	13·4	280	19	12·6	2·6	203	28	13·3	6·1	261	
4·5 ., .	15	18·7	15·6	288					15	18·3	15·9	280	9	13·2	9·3	280	9	11·6	1·1	357	28	14·2	5·7	258	
5·4 ., .	7	18·2	13·5	305					10	17·3	14·3	282	6	16·0	15·5	276	4	10·3	4·1	177	27	15·6	6·4	255	
6·0 ., .	6	20·0	13·1	298					6	17·2	11·7	293	4	16·7	14·1	270	3	13·7	3·2	161	27	18·5	9·0	281	
7·2 ., .	3	24·0	5·2	350					3	24·0	13·0	275	3	23·3	21·8	287	2	14·5	3·7	249	25	26·8	14·8	270	
9·0 ., .	2	30·5	11·1	298					1	27·0	27·0	280					1	24·0	21·0	255	13	34·8	20·9	265	
Station	AHMEDABAD				AMAUSI								AMBALA												
Time in I. S. T.	2330				0530				1730				2330				0530				1730				
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Surface .	30	7·1	4·6	253	30	2·3	0·4	040	30	5·8	3·7	306	30	2·6	0·8	359	30	5·4	1·3	001	30	5·9	3·5	306	
0·15 a. g. .	30	16·6	11·3	262	30	13·6	3·7	030	30	11·3	7·0	297	30	15·1	6·3	339	30	14·5	4·5	356	30	12·6	7·2	305	
0·3 a. m. s. l. .	30	17·6	12·3	263	30	13·9	4·2	331	30	11·3	6·0	297	30	15·4	6·4	342	30	7·5	2·2	004	30	7·2	3·3	298	
0·6 ., .	30	16·0	11·9	274	30	15·3	5·2	330	29	12·2	7·4	295	30	15·6	7·2	338	30	15·4	4·3	345	30	13·4	8·5	307	
0·9 ., .	30	13·0	10·7	286	30	13·9	6·9	325	29	12·2	8·5	287	29	14·3	7·8	315	30	15·9	5·0	329	30	14·4	9·7	306	
1·5 ., .	30	9·6	8·8	298	28	14·2	9·8	305	29	13·5	11·4	285	25	12·5	10·7	298	30	15·4	7·7	319	30	14·3	10·9	297	
2·1 ., .	30	9·2	6·0	292	24	15·0	12·2	300	27	14·7	13·1	286	19	12·4	10·3	284	29	14·2	8·1	314	29	13·2	10·3	301	
0·0 ., .	29	13·1	4·7	258	12	16·0	14·6	280	22	16·0	13·7	282	7	11·3	9·5	285	22	14·4	11·1	302	28	16·2	12·6	303	
3·6 ., .	16	14·2	10·5	284	3	11·3	10·4	280	18	18·3	15·5	287					10	16·2	15·1	307	21	17·5	13·6	297	
4·5 ., .	4	11·2	6·2	069	2	13·0	12·9	364	18	21·3	19·4	284					4	19·7	18·9	306	25	17·6	14·6	304	
5·4 ., .	1	15·0	15·0	190					10	24·7	23·4	280					3	18·3	18·3	312	22	19·2	16·4	302	
6·0 ., .	1	14·0	14·0	235					6	22·0	19·9	290					3	15·3	14·8	290	21	20·5	17·0	293	
7·2 ., .	1	19·0	19·0	265													2	27·5	27·5	311	14	27·0	22·6	293	
9·0 ., .																	2	27·5	27·5	308	7	28·3	24·2	275	

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

April 1958 (CHAITRA 11—VAISAKHA 10, 1880 SAKA)

Station	AMBALA				AMRITSAR				ANANTAPUR															
	2330				0530*				1730*				0530				1730				2330			
Time in I. S. T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Ht. in Km.																								
Surface	30	5·2	3·5	329	30	3·4	2·0	030	30	3·5	3·5	335	30	4·1	2·4	222	30	6·8	5·8	075	30	9·3	6·9	112
0·15 a. g.	30	17·4	10·1	338	26	4·2	2·5	033	26	6·0	4·4	326	30	9·6	6·5	227	30	10·0	7·2	075	29	13·5	9·2	128
0·3 a. m. s. 1.	30	8·4	5·1	333	26	4·1	1·7	040	26	5·0	4·3	331												
0·6 „	30	16·7	10·4	333	26	12·0	5·8	356	26	10·9	8·1	306	30	10·7	6·4	228	30	9·6	7·0	076	29	14·5	10·6	127
0·9 „	30	16·2	10·3	328	26	11·1	6·2	334	26	10·1	8·1	304	30	9·9	4·9	205	30	8·9	7·0	078	29	14·1	10·8	130
1·5 „	29	13·6	9·8	323	26	11·2	7·9	319	26	10·1	8·1	303	30	9·6	4·9	163	30	9·0	7·1	087	29	9·0	7·6	125
2·1 „	29	14·1	11·0	310	26	12·6	10·1	307	26	12·1	9·4	306	30	9·0	5·6	097	30	8·1	7·4	088	29	7·5	5·3	117
3·0 „	27	14·6	11·6	219	26	15·7	12·4	301	27	13·2	10·0	294	30	11·5	9·3	071	30	8·9	7·5	080	28	7·8	5·2	067
3·6 „	15	13·5	10·4	307	26	17·3	13·6	300	27	14·4	0·9	286	30	12·9	10·3	058	30	9·9	8·2	077	28	9·7	7·7	054
4·5 „	7	12·4	11·0	298	26	18·9	15·6	300	27	15·7	12·3	293	30	11·9	5·8	056	28	8·9	4·2	062	26	8·3	3·8	042
5·4 „	5	14·6	12·7	282	25	21·5	17·6	293	27	18·2	14·4	295	27	10·9	1·6	119	26	8·3	0·4	114	20	8·9	1·7	100
6·0 „	5	15·2	10·7	286	25	23·1	19·2	292	27	21·7	17·7	289	26	11·8	2·5	249	22	10·4	0·6	236	16	10·6	3·7	163
7·2 „					23	29·8	24·4	298	27	26·0	20·3	285	25	16·7	11·3	266	21	13·0	16·5	275	7	13·7	4·1	349
9·0 „					20	33·7	27·8	279	27	33·4	28·2	285	21	22·5	16·7	256	18	22·1	16·2	266				
Station	ASANSOL								BAGHDOGRA															
Time in I. S. T.	0530				1130				1730				2330				0530				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	2·5	1·0	189	30	3·3	1·5	235	30	4·6	1·2	288	30	3·4	1·5	160	30	4·7	3·7	066	30	8·5	7·5	091
0·15 a. g.	29	9·2	5·5	240	30	6·8	3·4	230	30	10·4	2·4	289	30	11·8	5·1	178	29	12·0	10·6	074	28	10·3	9·2	100
0·3 a. m. s. 1.	29	9·6	6·0	242	30	6·9	3·4	282	30	10·3	3·4	290	30	12·1	5·8	179	29	12·2	11·1	077	28	10·6	9·3	100
0·6 „	29	12·7	8·0	273	30	7·7	3·7	250	30	11·7	5·1	280	30	13·6	5·5	216	29	13·1	11·9	085	28	10·8	10·3	094
0·9 „	28	14·2	9·9	285	30	9·3	5·2	261	30	11·7	6·4	286	30	12·9	5·4	241	29	12·3	10·1	095	28	10·4	10·1	090
1·5 „	27	14·4	11·3	290	30	12·6	8·7	273	29	10·6	6·9	280	30	12·2	7·1	271	28	10·5	4·1	100	27	8·7	2·5	119
2·1 „	25	14·0	12·1	298	22	15·2	13·1	287	29	10·8	6·4	286	30	13·4	9·8	269	26	10·0	5·4	250	22	11·2	9·6	258
3·0 „	19	9·2	17·7	289	1	26·0	26·0	300	25	14·4	13·1	291	12	14·7	12·7	302	23	19·7	18·9	279	16	16·6	15·9	277
3·6 „	7	17·6	17·2	297					23	17·5	15·7	292	1	6·0	6·0	330	21	25·9	25·7	280	1	1·0	1·0	245
4·5 „	4	17·0	16·7	300					13	29·6	21·6	292					13	23·6	23·2	281				
5·4 „	1	3·0	3·0	235					7	23·4	21·7	290					9	28·8	20·5	293				
6·0 „	1	11·0	11·0	255					5	16·0	14·0	295					6	16·6	15·3	292				
7·2 „									1	19·0	19·0	280					5	14·2	11·1	274				
9·0 „																	3	21·3	19·2	280				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

April 1958 (CHAITRA 11—VAIBAKHA 10, 1859 Saka)

Station	BAGHDOGRA								BAIRAGARH								BAMRAULI							
	1730				2330				0530				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	30	6·2	4·8	068	30	5·3	4·5	068	30	4·6	1·8	252	30	8·6	4·6	283	30	6·3	2·6	268	30	3·0	0·1	083
0·15 a. g. .	29	9·5	6·3	061	30	10·6	9·7	073	30	16·5	6·4	277	30	10·1	5·7	271	30	16·0	6·9	293	30	4·8	0·8	296
0·3 a. m. s. l. .	29	9·5	6·9	068	30	10·7	9·9	075													30	5·5	1·0	297
0·6 ., .	29	7·6	5·5	084	30	11·8	10·6	077	30	15·0	5·8	265	30	9·7	5·5	277	30	15·8	6·7	288	29	7·9	2·2	315
0·9 ., .	29	6·6	2·9	108	30	9·4	8·1	090	30	17·0	7·8	290	30	11·8	7·2	279	30	15·6	6·8	302	29	9·8	3·0	288
1·5 ., .	28	10·2	6·3	239	26	10·9	5·6	249	30	12·9	7·9	288	30	12·5	8·5	275	30	13·6	8·5	292	29	11·5	8·9	286
2·1 ., .	26	16·3	15·0	258	24	16·0	14·4	264	30	12·7	7·4	264	30	11·5	8·5	278	30	11·2	7·5	280	28	14·9	13·2	288
3·0 ., .	23	22·0	21·2	268	19	14·9	14·4	275	22	14·3	7·9	263	30	12·4	8·2	275	25	10·0	7·1	269	28	18·6	17·5	290
3·6 ., .	22	22·1	21·0	276	15	16·8	16·2	277	8	12·9	6·5	272	27	13·1	8·6	275	7	11·0	6·0	273	28	20·4	19·0	286
4·5 ., .	17	19·5	19·1	286	7	23·1	22·8	283	2	13·0	1·7	333	18	14·3	6·5	289					29	22·8	21·0	283
5·4 ., .	12	28·5	23·8	284	2	24·5	24·2	290					13	15·3	7·0	282					29	23·9	21·7	283
6·0 ., .	12	29·6	27·7	283									11	17·3	10·4	300					29	23·9	20·7	280
7·2 ., .	5	27·2	21·1	306									5	22·6	8·0	345					28	28·6	24·7	271
9·0 ., .	2	34·5	32·9	287																28	42·2	37·2	262	

Station	BAMRAULI								BANGALORE																
	1130				1730*				2330				0530				1730				2330				
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Surface .	30	6·0	3·7	290	30	8·3	5·5	312	30	2·8	0·6	073	30	5·1	3·2	194	30	5·8	3·7	100	30	6·6	4·6	137	
0·15 a. g. .	30	9·7	5·8	294	30	9·2	6·2	310	30	13·6	3·8	335	30	9·7	6·5	200	29	9·4	6·0	107	29	12·3	9·0	151	
0·3 a. m. s. l. .	30	10·0	5·8	293	30	9·4	6·4	310	30	14·6	4·4	333													
0·6 ., .	30	9·5	5·7	292	30	11·0	7·9	307	30	14·7	4·7	331													
0·9 ., .	29	9·3	6·2	286	30	12·1	9·1	301	30	13·1	6·3	313													
1·5 ., .	28	10·8	7·9	293	30	13·1	11·2	293	28	12·5	10·1	292	30	9·4	5·9	184	29	9·9	8·6	102	29	13·8	10·9	141	
2·1 ., .	26	15·5	12·7	290	30	15·1	13·8	285	26	15·9	14·6	288	30	8·8	6·6	073	29	9·8	8·6	091	29	10·0	6·5	116	
3·0 ., .	23	20·7	16·8	283	30	17·9	16·3	279	15	16·3	15·6	278	30	13·9	12·5	065	27	10·0	8·9	070	29	11·0	9·6	063	
3·6 ., .	22	22·6	26·6	280	30	19·3	17·3	279	3	18·7	18·1	284	21	13·4	12·2	066	23	10·3	9·3	065	24	11·2	9·8	075	
4·5 ., .	20	23·5	21·3	275	30	21·1	18·7	279	1	25·0	25·0	255	18	9·3	5·9	083	16	8·0	4·0	084	19	10·0	7·4	079	
5·4 ., .	15	26·5	24·3	283	30	21·8	19·3	280					14	7·6	1·0	105	14	7·8	0·8	217	13	10·3	3·3	064	
6·0 ., .	15	28·4	24·4	281	30	23·2	20·0	281					10	11·1	1·8	176	14	10·4	2·6	245	9	11·3	1·2	074	
7·2 ., .	9	32·7	28·8	273	30	29·2	25·3	275									11	12·8	8·7	275	5	14·0	8·4	945	
9·0 ., .	2	35·0	34·4	281	29	38·0	32·9	270									8	23·1	18·4	254	1	21·0	21·0	270	

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

April 1958 (CHAITRA 11—VAISAKHA 10, 1880 SAKA)

Station	BAREILLY								BEGUMPET								BHAGALPUR							
Time in I. S. T.	0530				1730				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	5·0	1·7	334	30	6·0	5·3	280	30	3·5	1·3	130	30	4·1	2·6	124	30	6·0	1·9	125	30	5·1	2·3	089
0·15 a. g.	30	15·2	7·0	319	30	11·7	9·0	285	29	10·3	4·4	195	30	7·4	4·8	120	29	12·4	7·8	133	30	11·6	2·5	291
0·3 a. s. l.	30	14·4	5·8	331	30	11·4	8·9	286													30	10·8	1·5	156
0·6 „	30	19·1	8·1	305	30	13·2	9·6	288	29	7·0	2·8	157	30	7·0	4·6	121	29	8·7	4·8	129	30	10·6	4·9	261
0·9 „	30	18·5	9·5	306	29	13·3	9·9	289	29	12·7	6·5	182	30	7·3	4·9	114	29	13·6	9·0	134	30	12·1	8·1	275
1·5 „	29	16·3	8·2	315	29	14·1	11·5	286	29	10·6	6·9	179	30	6·9	4·1	112	29	10·0	7·5	128	28	13·4	10·6	285
2·1 „	26	15·6	13·0	303	29	16·2	15·1	286	29	8·7	3·0	157	29	6·6	4·4	106	27	7·7	3·7	090	26	15·0	14·5	294
3·0 „	20	17·7	15·3	301	29	18·6	17·3	296	28	10·4	5·6	049	28	7·5	4·4	073	24	9·7	4·3	034	20	23·6	22·9	290
3·6 „	14	19·9	18·2	311	27	19·5	17·6	297	27	11·0	7·8	030	27	10·0	4·2	044	16	10·3	6·7	020	8	22·1	21·3	283
4·5 „	10	24·2	21·4	313	23	21·0	18·5	300	26	10·1	4·0	010	23	11·1	4·9	006	2	7·0	3·7	009	4	16·7	16·5	279
5·4 „	6	15·8	12·8	325	19	19·4	16·4	291	20	11·3	3·3	308	20	15·3	6·5	329	2	10·5	8·0	307	2	13·5	13·1	263
6·0 „	4	10·0	9·4	308	17	19·7	17·6	297	16	15·3	7·3	282	17	18·2	5·9	293	1	12·0	12·0	245	1	10·0	10·0	205
7·2 „	4	13·7	13·6	298	12	22·2	20·7	275	5	26·8	23·0	265	10	18·3	11·5	266								
9·0 „	2	27·0	25·9	263	6	35·0	29·4	282	2	48·0	45·6	252	4	28·7	28·6	232								
Station	BHAGALPUR								BHUBANESHWAR															
Time in I. S. T.	1130				1730				0530				1130				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	5·5	1·1	032	30	6·7	2·8	317	30	8·0	7·3	191	30	10·9	9·2	203	30	16·8	15·4	183	30	11·8	10·3	190
0·15 a. g.	29	8·5	2·1	034	30	12·6	5·0	312	23	12·6	11·2	212	30	11·7	10·1	211	30	18·4	17·9	192	29	17·2	16·5	208
0·3 a. s. l.	29	8·2	1·0	017	30	13·4	5·7	310	23	13·6	11·3	230	30	11·0	9·6	213	30	18·6	18·1	197	29	18·7	18·0	213
0·6 „	29	9·3	0·9	300	30	14·0	7·2	295	22	14·3	10·6	242	30	10·8	9·2	221	30	15·6	14·8	200	29	19·8	18·4	215
0·9 „	28	10·4	4·5	271	30	14·4	9·2	285	22	11·7	8·1	247	30	10·3	7·9	240	30	11·8	10·3	215	28	14·6	13·1	218
1·5 „	23	14·7	13·0	277	29	15·8	13·5	277	20	6·7	5·0	263	29	8·1	5·8	275	28	8·4	4·0	251	25	6·8	4·3	251
2·1 „	22	18·8	17·4	284	27	18·1	17·1	280	18	8·8	4·7	280	28	7·0	4·8	289	26	8·5	7·2	312	23	7·6	4·8	299
3·0 „	11	24·8	22·5	276	22	22·1	21·1	280	18	10·3	5·7	305	23	8·1	4·3	322	24	9·2	7·1	328	19	10·1	7·6	318
3·6 „					18	22·9	21·3	282	18	11·8	9·2	293	1	6·0	6·0	040	21	12·0	9·2	332	3	13·0	12·3	317
4·5 „					15	24·3	23·4	285	7	12·3	4·3	309					11	16·5	11·7	297	2	13·5	9·1	020
5·4 „					12	23·0	19·6	286	6	17·3	4·5	222					10	19·4	13·7	294	2	20·0	14·7	026
6·0 „					10	21·7	17·2	290	4	22·3	2·5	181					9	23·5	15·5	290	1	15·0	15·0	285
7·2 „					5	21·8	19·6	292	1	41·0	41·0	070					6	27·7	26·2	266				
9·0 „					1	24·0	24·0	260									2	51·0	48·5	251				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

April 1958 (CHAITRA 11—VAISAKHA 10, 1880 SAKA)

Station	BHUJ								BIKANER															
	0530				1730				2330				0530				1730							
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D				
	Ht. in Km.																							
Surface .	30	5·0	4·6	251	30	8·1	7·2	256	30	5·9	5·5	255	30	3·2	1·4	220	30	2·8	1·7	243	30	3·1	1·6	233
0·15 a.g. .	30	16·9	15·4	270	30	13·5	12·4	256	30	15·4	15·0	264	30	14·2	3·1	260	30	8·2	4·8	281	30	12·2	3·3	260
0·3 a.s.l. .	30	17·6	15·8	276	30	13·8	12·7	257	30	16·4	15·6	269	30	12·0	2·9	225	30	7·0	3·8	274	30	10·8	2·0	264
0·6 „ .	30	16·1	14·8	285	30	13·7	12·7	265	30	16·2	15·3	277	30	14·2	4·1	290	30	8·2	5·7	268	30	12·5	5·0	273
0·9 „ .	30	11·7	10·6	285	30	13·0	12·0	267	30	11·6	9·5	278	29	13·1	5·5	290	30	8·0	5·5	265	30	11·8	5·8	278
1·5 „ .	30	10·4	7·9	272	30	9·4	7·5	277	30	8·4	4·9	263	26	11·0	6·5	278	29	7·9	6·0	267	29	9·5	6·8	268
2·1 „ .	30	10·8	5·1	254	30	9·0	4·5	279	30	8·9	3·6	233	27	10·8	7·6	265	28	8·1	5·5	270	28	10·6	7·7	263
3·0 „ .	30	11·9	3·9	219	30	12·3	2·7	270	30	10·8	3·2	218	26	11·7	9·4	288	26	10·2	8·0	268	28	11·4	8·0	268
3·6 „ .	7	13·3	6·5	240	30	13·6	5·6	236	8	10·5	7·9	243	20	12·8	10·5	278	25	12·5	9·4	274	22	10·7	7·4	256
4·5 „ .	1	4·0	4·0	325	30	13·9	5·5	241	2	13·5	7·9	341	3	28·0	20·8	308	24	14·5	10·7	279	7	12·6	6·6	288
5·4 „ .					30	15·7	8·2	265					1	19·0	19·0	345	21	17·2	14·7	278	5	13·6	9·3	287
6·0 „ .					29	18·3	8·8	267					1	19·0	19·0	350	17	17·6	14·7	279	2	16·5	12·9	257
7·2 „ .					15	23·1	14·5	297					1	13·0	13·0	335	11	20·0	17·2	279	1	14·0	14·0	325
9·0 „ .					2	23·0	16·7	323					1	6·0	6·0	255	7	23·0	20·8	284				
Station	CHIKALTHANA								COCHIN															
Time in I.S.T.	0530				1730				2330				0530				1730							
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D				
Surface .	30	4·4	3·1	304	30	6·4	2·9	334	30	6·5	3·9	309	30	2·0	1·8	064	30	8·1	4·4	279	30	4·1	1·1	044
0·15 a.g. .	30	11·6	7·2	317	30	8·1	4·2	358	30	13·4	6·9	331	29	5·6	4·1	069	23	9·5	8·2	271	13	7·5	3·0	080
0·3 a.s.l. .													29	6·0	2·0	010	23	9·7	8·6	269	13	6·7	1·4	074
0·6 „ .													29	6·2	3·0	319	23	7·4	5·5	272	13	6·4	1·2	339
0·9 „ .					30	13·4	7·2	335	30	8·0	4·3	349	30	14·7	8·9	335	29	5·6	1·4	305	23	5·5	2·6	289
1·5 „ .					30	10·7	5·3	343	30	7·5	4·7	349	30	12·6	7·3	347	29	6·1	3·2	079	23	7·4	5·4	064
2·1 „ .					30	8·9	2·3	017	30	6·9	3·0	360	30	8·4	3·5	026	29	8·8	8·0	074	22	10·6	10·3	073
3·0 „ .					30	8·8	1·6	082	28	6·8	2·1	019	26	9·2	2·4	131	25	14·6	13·2	077	15	12·7	12·3	076
3·6 „ .					26	9·2	1·1	155	19	7·8	1·0	321	13	11·8	8·8	195	24	13·0	12·1	084	12	10·6	8·9	076
4·5 „ .					6	12·7	5·0	227	11	14·5	5·2	248	2	17·0	15·6	185	19	9·0	8·1	080	8	10·7	7·0	077
5·4 „ .					1	14·0	14·0	105	9	13·2	3·9	293	1	17·0	17·0	230	8	8·3	6·9	085	5	9·0	3·9	163
6·0 „ .					1	19·0	19·0	095	5	19·8	5·7	300					5	9·2	5·3	109	4	8·0	2·8	197
7·2 „ .									4	19·7	4·3	308					1	2·0	2·0	055	2	8·0	7·3	090
9·0 „ .																	1	7·0	7·0	255	1	6·0	6·0	260

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

April 1958 (CHAITRA 11—VAISAKHA 10, 1880 Saka)

Station	DARJEELING								DUM DUM											
	0530				1730				0530				1130				1730*			
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	30	0·9	0·2	174	30	3·4	3·0	213	30	4·1	3·8	186	30	6·1	4·9	189	30	7·5	6·5	187
0·15 a. g. .	19	4·8	2·1	211	4	6·0	5·7	226	30	11·7	9·8	217	30	10·4	8·5	198	30	13·3	12·2	198
0·3 a. s. l. .									30	12·0	9·6	231	30	10·6	9·0	203	30	12·9	12·1	202
0·6 „ .									30	12·8	10·3	239	30	10·2	8·1	214	30	12·0	11·2	208
0·9 „ .									30	13·5	10·6	249	30	10·5	7·6	234	30	10·9	8·9	225
1·5 „ .									30	12·5	9·5	262	28	11·3	8·5	259	30	9·7	7·3	269
2·1 „ .									30	11·3	8·0	280	27	12·7	10·5	280	30	10·6	9·6	294
3·0 „ .	19	11·6	10·6	277	4	13·7	12·7	271	29	11·5	9·3	295	24	14·6	11·6	280	30	14·4	12·8	300
3·6 „ .	15	16·3	14·6	281	3	18·7	17·0	269	...	...	...	...	19	19·1	16·4	296	...	...	...	7
4·5 „ .	7	14·3	11·2	269	1	24·0	24·0	290	29	15·4	13·8	300	17	24·0	21·8	300	30	18·8	16·4	294
5·4 „ .	3	8·3	5·0	324					29	15·6	13·6	294	11	24·6	22·4	293	30	19·9	17·2	289
6·0 „ .	3	9·0	7·9	299					29	17·4	15·1	283	10	27·2	25·2	288	30	21·2	18·2	287
7·2 „ .	1	12·0	12·0	235					29	22·1	19·0	274	5	32·6	28·8	286	30	25·1	22·3	281
9·0 „ .									25	34·4	30·0	267	1	47·0	47·0	240	26	37·2	32·0	278
Station	GADAG								GANNAVARAM											
Time in I.S.T.	0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	30	5·1	3·8	243	30	5·6	3·4	103	30	8·0	5·3	252	30	2·2	1·7	130	30	7·7	6·9	168
0·15 a. g. .	30	9·8	5·4	271	30	8·5	4·8	100	27	13·5	8·4	262	30	9·6	7·8	185	30	9·9	9·5	170
0·3 a. s. l. .													30	11·2	9·2	187	30	10·2	9·7	169
0·6 „ .													30	13·0	11·1	188	30	9·1	8·5	166
0·9 „ .	30	9·7	3·8	310	30	8·0	4·8	105	27	12·8	6·5	271	28	11·3	9·1	176	30	7·3	6·2	168
1·5 „ .	30	8·2	2·5	087	30	6·9	4·3	096	27	8·9	3·0	107	28	8·8	6·4	124	30	6·5	0·8	136
2·1 „ .	30	8·1	4·3	093	30	7·7	4·8	081	27	8·9	7·2	103	27	8·4	6·4	087	29	8·5	5·2	061
3·0 „ .	30	9·7	7·5	078	27	9·1	7·1	069	26	10·8	8·3	075	20	10·4	7·0	050	28	10·5	9·4	058
3·6 „ .	27	9·8	6·6	066	24	9·1	7·3	057	23	11·2	7·8	064	15	11·4	7·3	029	28	11·6	9·1	064
4·5 „ .	11	7·7	1·4	027	17	10·1	6·0	058	17	10·3	2·5	038	8	14·6	8·6	002	27	11·7	3·8	046
5·4 „ .					11	14·8	4·4	054	8	11·4	6·7	293	6	10·8	7·0	330	25	12·5	2·9	343
6·0 „ .					9	16·8	3·0	28	6	19·5	17·4	291	5	10·6	7·5	316	24	13·1	5·6	325
7·2 „ .					4	17·5	14·5	261	1	25·0	25·0	300	2	22·0	12·3	209	16	14·4	9·9	283
9·0 „ .					2	27·5	23·6	252									4	21·0	12·6	317

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

April 1958 (CHAITRA 11—VAISAKHA 10, 1880 SAKA)

Station	GAUHATI												GAYA												
	0530*				1130				1730*				2330				0530				1130				
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Ht. in Km.																									
Surface	.30	3.3	2.2	105	30	5.2	3.4	036	30	3.5	3.0	060	30	4.0	1.4	029	30	3.5	0.4	171	30	5.1	3.5	273	
0.15 a. g.	.30	7.4	4.7	072	30	7.7	5.3	035	30	7.2	4.6	057	26	7.3	4.9	082	30	12.4	3.6	220	30	9.1	5.7	272	
0.3 a. s. l.	.30	7.5	3.8	072	30	7.6	4.7	046	30	7.0	3.7	039	26	7.7	5.5	083	30	12.9	4.5	230	30	8.9	5.7	277	
0.6 „	.30	7.2	2.4	067	30	6.5	2.9	048	30	8.1	3.0	056	26	7.5	4.0	096	30	13.2	6.2	258	30	9.8	6.3	276	
0.9 „	.30	7.5	1.5	250	28	6.3	0.9	287	30	9.0	0.9	239	26	7.7	3.7	220	30	15.0	9.3	274	30	10.2	7.0	277	
1.5 „	.30	12.1	10.1	258	26	12.2	10.7	241	30	13.0	9.4	239	23	12.1	11.6	251	30	16.8	14.0	258	26	13.3	10.6	277	
2.1 „	.30	18.6	17.7	265	24	18.1	17.1	249	30	19.5	18.2	250	15	15.7	15.0	260	30	21.3	10.4	308	18	17.0	15.9	280	
3.0 „	.30	23.5	22.9	270	19	23.6	23.4	260	30	24.2	23.7	267	9	17.6	15.9	267	18	22.0	21.3	282	3	27.0	26.8	287	
3.6 „	.30	25.8	25.3	274	14	31.5	29.0	268	30	25.4	24.2	270	3	19.7	19.4	263	8	18.5	18.3	280					
4.5 „	.30	27.9	27.0	278	9	27.2	24.6	267	30	28.4	26.7	273	1	24.0	24.0	270	2	13.0	13.0	272					
5.4 „	.30	29.3	28.3	277	2	26.0	25.5	284	30	27.9	25.5	273													
6.0 „	.29	29.9	27.6	274					30	26.8	26.3	266													
7.2 „	.29	33.7	29.3	272					30	35.2	31.5	278													
9.0 „	.22	41.1	35.2	270					21	44.4	39.3	276													

Station	GAYA												GOPALPUR												GORAKHPUR			
	1730				2330				0530				1730				2330				0530							
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D				
Ht. in Km.																												
Surface	.30	8.2	4.5	319	30	5.1	1.8	122	30	6.2	5.9	212	30	12.7	12.6	205	30	11.3	11.0	212	30	3.4	1.4	063				
0.15 a. g.	.30	15.9	10.4	311	30	16.4	0.8	311	30	14.8	13.4	216	29	24.7	24.4	202	30	21.7	21.2	214	30	14.1	3.4	061				
0.3 a. s. l.	.30	16.2	10.3	310	30	16.9	1.4	307	30	11.7	10.4	230	29	25.1	24.6	202	30	20.7	20.1	217	30	15.5	3.1	078				
0.6 „	.30	15.8	10.4	309	30	19.9	2.8	305	30	10.5	9.8	241	29	16.0	14.7	203	30	16.2	14.7	217	30	14.7	1.0	004				
0.9 „	.30	15.9	11.5	304	30	19.1	5.2	293	30	10.4	7.9	239	29	10.2	8.0	205	30	10.3	8.1	216	30	14.1	3.8	303				
1.5 „	.30	17.2	11.9	290	28	15.5	9.9	288	30	7.5	4.0	251	28	6.8	2.2	245	28	6.3	3.4	214	30	13.2	9.2	298				
2.1 „	.30	18.6	14.7	276	20	16.3	14.1	285	30	7.0	3.2	323	28	6.3	3.6	291	26	5.3	1.8	318	30	15.9	14.0	294				
3.0 „	.21	19.8	16.8	276	12	19.6	17.8	282	27	10.0	6.4	352	27	8.6	5.7	340	20	8.9	6.2	360	26	19.0	17.5	287				
3.6 „	.12	22.5	20.0	269	3	24.0	23.3	300	24	10.8	5.8	351	21	9.1	5.5	339	13	11.2	7.0	352	21	20.5	18.9	284				
4.5 „	.3	23.3	18.4	280					16	10.8	3.6	329	16	15.7	9.4	338	1	22.0	22.0	025	13	22.7	22.3	292				
5.4 „	.1	47.0	47.0	290					10	14.3	4.1	237	13	20.3	12.6	318					6	21.7	19.5	291				
6.0 „	.								7	20.1	2.2	305	12	20.7	11.8	288					4	17.0	14.9	288				
7.2 „	.								3	22.3	18.6	229	5	23.2	2.9	102					2	18.0	10.3	278				
9.0 „	.								1	12.0	12.0	045	2	29.0	28.9	270					1	12.0	12.0	010				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

April 1958 (Chittar 14—Vaisakha 10, 1958 B.S.E.)

Station	GORAKHPUR				GWALIOR								IMPHAL							
	1730				0530				1730				2330				0530			
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Ht. in Km.																				
Surface	30	7.0	3.0	307	30	3.5	1.6	254	30	5.5	3.9	311	30	2.5	1.0	289	30	0.9	0.3	148
0.15 a.g.	30	13.8	7.1	297	30	14.0	2.3	264	30	9.9	7.4	317	30	11.5	3.4	337	29	2.9	1.2	164
0.3 a.m.s.l.	30	14.9	7.7	295	30	10.8	2.5	263	30	9.3	7.0	316	30	9.6	2.3	328				
0.6 ,,	30	18.0	9.6	287	30	15.9	2.7	321	30	11.3	9.2	311	30	12.2	6.2	331				
0.9 ,,	30	18.6	10.7	285	30	14.8	4.8	327	30	12.8	10.6	303	30	11.8	7.8	320	29	2.7	1.1	155
1.5 ,,	27	18.3	14.6	282	30	14.0	9.0	322	29	13.2	10.7	299	30	11.4	9.4	299	29	8.1	6.6	261
2.1 ,,	27	9.7	18.5	281	29	15.1	12.9	313	29	13.9	10.7	295	29	14.1	12.2	289	28	17.0	16.0	268
3.0 ,,	26	23.0	22.3	282	24	17.4	12.2	298	25	14.1	9.7	282	25	17.3	14.4	287	23	23.7	22.6	271
3.6 ,,	24	22.7	22.0	285	15	17.9	13.9	286	24	18.2	12.9	281	8	14.7	13.8	275	17	23.5	22.0	278
4.5 ,,	20	23.4	22.0	290	4	20.0	16.4	311	20	21.3	16.0	286	2	16.0	16.0	270	13	18.9	15.3	268
5.4 ,,	19	26.4	25.4	286	3	23.7	18.8	314	16	19.3	15.0	279	1	12.0	12.0	300	4	14.3	13.5	257
6.0 ,,	16	25.9	24.5	287	2	21.0	20.8	289	15	18.4	15.1	291					1	13.0	13.0	235
7.2 ,,	13	26.2	24.5	286	2	25.0	21.5	296	10	27.6	21.5	292					1	14.0	14.0	245
9.0 ,,	9	30.7	28.6	278					1	38.0	38.0	250								
Station	IMPHAL								JABALPUR								JAGDALPUR			
Time in I.S.T.	1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	5.6	4.1	253	30	2.9	1.7	202	30	2.0	1.4	189	30	4.1	2.0	277	30	2.4	1.6	157
0.15 a.g.	29	8.6	7.5	266	30	5.3	2.2	220	30	9.9	4.3	209	30	10.1	5.1	280	30	12.7	1.2	214
0.3 a.m.s.l.																				
0.6 ,,									30	11.8	5.1	229	30	10.4	5.7	283	30	13.8	1.3	249
0.9 ,,	29	8.1	6.9	265	30	4.9	2.3	213	30	13.8	6.3	259	30	12.6	7.9	286	30	13.6	4.2	307
1.5 ,,	29	14.8	13.9	268	30	10.4	9.0	265	30	12.0	6.3	292	30	10.9	8.0	290	30	10.4	6.4	312
2.1 ,,	28	15.9	15.0	258	27	15.6	14.8	264	29	11.5	8.4	295	29	10.0	8.4	295	30	11.1	7.7	304
3.0 ,,	21	17.3	15.5	263	22	20.9	19.5	270	28	14.0	10.7	291	29	12.0	10.4	293	29	11.8	8.5	291
3.6 ,,	19	18.2	16.4	263	12	19.7	17.7	260	26	14.6	10.4	281	26	14.0	11.6	286	23	12.5	9.5	274
4.5 ,,	11	20.3	16.5	268	1	17.0	17.0	270	21	19.2	14.0	278	21	17.0	14.4	294	6	18.3	4.9	299
5.4 ,,	4	20.7	20.1	268					10	17.6	10.8	297	16	16.9	13.8	293	1	19.0	19.0	325
6.0 ,,	1	32.0	32.0	270					9	19.2	16.0	293	13	16.8	14.2	298	1	27.0	27.0	315
7.2 ,,									5	28.4	20.4	271	8	28.1	27.3	288				
9.0 ,,									2	46.0	41.0	260	2	38.0	38.0	280				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

April 1958 (Chaitra 11—Vaisakha 10, 1880 Saka)

Station	JAGDALPUR				JAIPUR				JAMSHEDPUR							
Time in I.S.T.	1730		2330		0530		1730		0530		1730					
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	4·2	2·5	189	30	3·0	1·1	197	30	4·5	2·5	345	30	5·3	3·7	285
0·15 a. g.	28	10·0	5·0	208	30	13·8	8·2	200	30	14·6	5·0	320	29	10·6	7·8	283
0·3 a.m.s. 1.	.												30	6·8	4·3	256
0·6 „	28	7·4	4·3	206	30	10·4	6·1	198	30	15·7	5·7	316	29	10·7	7·3	280
0·9 „	28	9·6	4·8	219	29	13·4	9·3	206	30	17·4	8·2	313	30	10·8	8·0	287
1·5 „	28	7·3	4·1	261	27	9·7	5·5	258	30	14·1	10·6	295	30	10·6	8·1	288
2·1 „	26	6·5	4·6	296	26	7·3	4·6	315	27	10·9	9·5	295	28	10·4	10·4	286
3·0 „	21	8·6	3·3	351	23	8·4	5·3	355	20	10·9	6·3	280	25	11·8	8·1	295
3·6 „	17	10·0	3·7	026	2	9·6	6·1	015	16	14·2	8·0	280	23	13·9	10·0	315
4·5 „	11	13·5	4·6	352	5	10·6	8·0	005	7	15·2	11·4	260	20	15·9	12·7	290
5·4 „	8	19·7	8·0	304	1	9·0	9·0	125	4	11·2	10·8	295	17	18·4	14·2	284
6·0 „	8	22·0	7·4	277					2	7·5	6·1	250	14	18·1	15·3	286
7·2 „	4	19·0	14·4	243					2	16·0	15·8	247	9	18·3	16·7	278
9·0 „	3	34·0	33·5	245					1	20·0	20·0	250	7	29·6	28·0	272
Station	JAMSHEDPUR				JHARSUGUDA				JODHPUR							
Time in I.S.T.	1730		0530		1730		2330		0530*		1130					
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	5·3	1·1	254	30	3·1	0·7	131	30	4·6	3·5	227	30	6·4	2·7	177
0·15 a. g.	30	11·7	3·3	278	30	9·5	3·5	205	30	9·6	7·1	228	28	16·1	9·2	193
0·3 a.m.s. 1.	30	11·2	3·4	279	30	7·7	2·2	183	30	8·7	6·9	226	28	13·4	7·4	187
0·6 „	30	11·4	5·0	273	30	10·5	7·1	229	30	9·6	7·4	233	27	15·8	9·4	217
0·9 „	30	10·7	5·6	280	30	12·2	8·7	245	30	9·0	7·1	243	27	13·4	9·4	235
1·5 „	30	10·0	6·1	275	29	11·9	8·1	267	29	8·6	7·4	276	28	9·4	7·6	267
2·1 „	30	10·5	7·4	273	28	10·4	8·6	290	29	9·0	7·7	295	27	8·9	7·8	292
3·0 „	26	12·4	10·2	283	24	10·6	8·7	32	29	10·3	8·1	38	26	11·1	9·1	311
3·6 „	22	13·4	11·7	288	13	9·5	7·5	331	27	10·4	8·2	312	22	11·2	9·1	311
4·5 „	18	16·5	14·6	298	2	10·5	10·3	356	17	16·0	13·7	313				30 14·9 8·8 255
5·4 „	12	19·0	16·0	294	1	19·0	19·0	315	7	23·7	22·7	300				29 18·9 12·9 262
6·0 „	8	24·0	20·9	284	1	15·0	15·0	325	3	29·0	26·8	273				28 21·6 15·9 260
7·2 „	4	22·5	15·7	281					1	41·0	41·0	250				28 26·7 21·1 263
9·0 „	2	23·0	3·6	278					1	52·0	52·0	260				27 37·7 31·1 262

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

April 1958 (Chaitra 11—Vaisakha 10, 1880 Saka)

Station	JODHPUR								MADRAS															
	1730*				2330				0530*				1130				1730*				2330			
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
	Ht. in Km.																							
Surface.	30	6.8	3.9	252	30	4.1	3.9	244	30	3.0	2.6	176	30	7.6	6.5	152	30	10.4	9.5	138	30	6.2	5.7	154
0.15 a. g.	30	7.5	4.9	257	30	15.3	12.0	241	30	12.1	11.6	163	30	10.4	9.4	148	30	17.8	17.6	132	30	14.3	13.8	153
0.3 a. m. s. l.	30	7.3	4.3	251	30	12.9	9.9	240	30	11.9	11.3	168	30	10.1	9.3	161	30	16.3	15.8	131	30	15.0	14.7	155
0.6 „	30	8.6	6.2	257	30	14.9	12.0	246	30	11.5	10.9	176	30	8.7	7.7	187	30	12.1	11.1	137	30	13.0	12.6	157
0.9 „	30	9.9	7.4	252	30	13.8	11.8	249	30	10.4	9.7	180	30	7.0	6.2	194	30	8.4	7.3	142	30	9.4	8.6	157
1.5 „	30	9.3	7.0	251	30	12.7	10.8	256	30	7.9	6.4	137	30	6.3	4.1	136	30	6.6	4.4	105	30	6.7	4.9	133
2.1 „	30	9.2	7.2	260	28	10.5	8.5	270	30	8.3	6.7	100	29	9.6	7.6	082	30	9.1	7.7	080	30	7.1	5.5	088
3.0 „	30	10.6	7.3	265	27	10.3	5.8	296	30	10.9	9.7	073	28	14.0	12.0	065	30	13.3	11.8	069	30	12.1	10.6	073
3.6 „	30	12.1	9.0	253	14	9.0	4.1	311	29	11.4	9.0	064	27	14.3	11.8	066	30	12.4	10.6	062	29	11.8	9.3	063
4.5 „	28	14.6	10.9	265	10	12.2	2.0	283	29	11.5	6.8	045	26	8.9	5.9	084	30	10.1	5.4	054	24	8.7	2.5	038
5.4 „	28	17.8	13.8	265	5	13.4	10.8	251	29	9.8	1.9	038	26	8.9	2.5	128	30	8.8	0.5	158	13	7.5	0.6	058
6.0 „	27	20.5	15.1	265	4	13.0	10.6	255	29	9.7	1.3	140	26	10.7	3.0	161	30	9.4	2.7	245	9	9.2	2.3	322
7.2 „	27	26.9	21.7	260	2	7.5	3.7	316	29	13.6	6.8	2.4	18	11.5	3.4	232	30	13.5	7.7	261				
9.0 „	23	36.2	31.0	260	1	6.0	6.0	230	23	24.0	18.2	263	14	16.9	11.7	280	25	24.3	18.2	265				
Station	MANGALORE								MINICOY															
	0530				1730				2330				0530				1730				2330			
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
	Ht. in Km.																							
Surface.	30	4.9	3.0	073	30	9.3	7.8	295	30	5.6	2.3	004	30	3.1	2.3	335	30	4.0	3.2	350	30	3.6	2.2	354
0.15 a. g.	30	5.6	2.8	004	30	11.2	9.9	291	30	6.6	3.5	329	30	6.1	4.2	335	30	7.2	5.7	3.8	30	6.7	3.8	340
0.3 a. m. s. l.	30	5.5	3.1	325	30	11.3	9.9	292	30	6.4	4.1	320	30	6.5	4.0	337	30	7.0	5.3	349	30	6.0	3.3	346
0.6 „	30	5.9	3.3	311	30	9.6	7.1	284	30	6.5	4.3	315	30	6.3	2.9	345	30	6.7	4.2	358	30	6.1	2.9	357
0.9 „	30	6.0	2.0	302	28	7.0	3.4	312	29	6.1	2.8	289	30	5.5	1.5	061	30	6.4	2.6	023	30	6.2	1.8	049
1.5 „	28	6.1	0.9	069	26	6.5	4.5	050	27	5.9	0.3	223	30	8.2	6.2	101	29	7.8	4.8	092	30	7.9	5.3	091
2.1 „	28	8.3	6.9	091	24	11.0	10.0	073	22	10.0	7.3	080	28	12.2	10.3	091	28	10.1	8.2	086	29	11.0	9.7	087
3.0 „	24	13.7	12.9	076	23	14.1	13.1	080	16	12.8	12.4	079	22	12.8	11.6	086	23	12.5	10.7	083	23	12.8	11.5	078
3.6 „	16	13.0	11.9	079	22	11.9	9.7	078	10	10.0	9.8	086	17	12.3	10.7	083	22	11.4	10.3	083	17	11.0	9.8	088
4.5 „	4	7.7	6.5	128	21	9.8	5.9	081	7	7.3	5.9	121	7	8.7	5.2	088	16	9.1	7.1	084	11	7.9	5.1	081
5.4 „					18	8.2	0.7	320	3	7.0	3.5	250	1	10.0	10.0	085	16	8.1	3.0	115	7	9.3	2.7	119
6.0 „					17	10.6	4.5	250	3	10.0	8.9	296	1	4.0	4.0	090	16	9.7	1.5	138	4	9.3	5.0	121
7.2 „					15	12.9	7.6	269	1	11.0	11.0	245	1	3.0	3.0	030	14	13.6	2.6	150	1	3.0	3.0	235
9.0 „					10	26.9	21.5	251									9	13.4	3.9	247				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

April 1928 (Chaitra 22-Vaisakha 20, 1880 Saka)

Station	MOHANBARI												MUSSOORIE												
	0530				1130				1730				2330				0530				1730				
Time in I. S. T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Ht. in Km.																									
Surface .	30	1·0	1·0	050	30	1·9	0·6	043	30	1·8	1·2	051	30	1·5	1·0	056	30	3·4	2·7	354	30	5·1	3·1	250	
0·15 a. g. .	29	8·6	8·2	047	28	4·7	2·1	065	29	7·4	5·3	050	26	8·7	7·4	049	29	9·2	7·0	330	28	7·0	3·7	230	
0·3 a. m. s. 1. .	29	8·7	8·2	046					29	7·3	5·7	0.0	26	8·5	7·3	052									
0·6 „ .	29	8·0	6·9	056	28	4·8	2·1	063	29	7·1	4·9	058	26	7·8	7·5	057									
0·9 „ .	29	7·9	5·3	076	28	4·6	2·9	063	29	6·6	3·6	088	26	6·9	5·1	067									
1·5 „ .	28	6·8	2·5	146	28	4·9	2·1	082	28	7·2	5·5	232	24	5·8	2·0	163									
2·1 „ .	28	7·9	5·0	209	25	6·6	3·8	210	22	11·8	11·0	234	20	8·2	6·2	248	29	8·3	5·9	343	28	10·0	5·2	232	
3·0 „ .	20	12·2	10·9	261	18	9·5	7·9	230	19	11·4	10·3	228	14	13·5	12·0	255	29	13·3	11·9	310	28	8·7	6·6	275	
3·6 „ .	13	10·5	9·0	263	14	12·7	11·5	2·3	11	8·5	4·7	207	8	12·6	10·0	257	28	15·3	13·3	305	27	11·7	7·6	311	
4·5 „ .	9	11·1	8·1	266					6	15·0	5·4	304	6	15·2	7·8	260	27	16·7	14·3	307	23	13·0	9·7	327	
5·4 „ .	5	16·4	7·5	267									3	10·7	8·5	259	24	16·6	14·0	296	20	14·3	11·2	306	
6·0 „ .	4	12·7	10·7	256									3	15·0	11·8	246	19	14·5	12·5	293	19	17·6	14·2	300	
7·2 „ .	3	14·0	9·1	222									2	19·5	17·3	250	11	22·6	18·5	284	18	24·9	21·2	293	
9·0 „ .	3	22·3	21·8	269									3	22·0	20·4	279	12	31·6	28·0	284					
Station	NAGPUR												NANPARA												
Time in I. S. T.	0530*				1130				1730*				2330				0530				1730				
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Surface .	30	3·7	1·2	300	30	5·3	2·3	250	30	4·5	0·5	320	30	5·4	2·0	204	30	4·2	1·5	124	30	6·2	2·6	263	
0·15 a. g. .	30	6·0	2·1	285	30	8·4	3·3	254	30	5·1	0·4	310	30	14·2	4·7	180	30	13·6	3·8	095	30	12·7	6·1	277	
0·3 a. m. s. 1. .																30	14·1	3·8	090	30	12·8	7·9	282		
0·6 „ .	30	7·6	2·8	262	30	8·7	4·1	237	30	5·7	1·2	297	30	14·8	5·6	179	30	17·0	0·9	060	30	13·3	8·0	276	
0·9 „ .	30	10·8	4·5	251	30	8·1	4·4	237	30	6·8	1·2	281	30	13·9	5·3	196	30	15·9	2·7	305	30	13·5	9·4	278	
1·5 „ .	30	10·3	4·0	260	30	7·3	3·3	263	30	6·9	2·6	261	29	9·3	3·8	238	28	13·8	10·6	296	30	14·3	11·7	284	
2·1 „ .	30	8·6	4·0	291	30	7·7	3·7	307	30	7·1	3·6	265	29	8·3	4·6	301	25	15·5	13·2	296	29	16·1	15·4	285	
3·0 „ .	30	9·3	4·9	308	28	10·4	2·9	301	30	8·4	4·7	278	26	11·0	5·8	310	18	19·9	16·7	281	29	18·0	15·4	291	
3·6 „ .	29	10·3	6·2	305	28	12·1	3·2	288	30	10·2	6·3	285	12	12·6	7·4	326	13	22·0	19·4	300	28	17·6	16·2	297	
4·5 „ .	29	12·5	7·7	302	25	13·2	5·0	300	30	13·3	8·5	293	5	11·2	7·2	315	5	16·4	15·7	281	23	19·7	18·0	298	
5·4 „ .	29	15·4	9·1	293	23	15·5	8·1	291	30	18·4	10·6	299	2	15·5	14·8	299	4	8·7	8·5	302	19	22·2	21·3	298	
6·0 „ .	29	18·5	10·1	282	21	19·0	11·2	281	28	18·4	14·1	279					4	11·5	11·3	283	15	22·0	19·9	303	
7·2 „ .	29	26·6	17·6	265	17	26·4	17·9	269	28	27·5	21·2	266					2	18·0	17·3	264	5	15·6	13·6	288	
9·0 „ .	29	37·0	28·9	260	14	45·0	37·5	269	27	38·8	31·9	265					1	23·0	23·0	355					

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

April 1950 (Chaitra 11—Vaisakha 10, 1886 Saka)

Station	NEW DELHI												POONA											
	0530*				1130				1730*				2330				0530				1730			
Time in I. S. T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
	Ht. in Km.																							
Surface.	30	6.6	2.9	339	30	8.9	2.8	260	29	7.2	5.5	330	30	6.3	2.7	344	30	0.7	0.6	247	30	4.9	3.7	284
0.15 a. g.	30	14.9	4.5	334	30	9.4	2.6	291	29	13.0	8.9	332	30	15.1	6.3	005	30	6.7	5.1	287	30	10.6	9.0	283
0.3 a. m. s. l.	30	14.7	4.4	338	30	9.5	3.2	292	29	12.3	8.8	333	30	12.4	4.7	008								
0.6 ,,	30	15.4	5.2	320	30	9.6	2.6	274	29	11.9	8.2	334	30	12.4	7.3	347	30	3.1	2.3	256	30	7.6	6.2	285
0.9 ,,	30	14.9	6.1	316	30	10.9	4.6	288	29	11.7	9.5	319	29	14.0	7.5	335	30	8.6	6.2	305	30	11.5	10.0	288
1.5 ,,	30	15.8	11.4	313	29	12.1	7.0	292	29	12.7	11.1	305	29	13.1	10.4	319	30	10.6	6.2	357	30	9.0	7.2	303
2.1 ,,	30	18.1	13.4	303	29	13.8	10.1	300	29	14.8	12.9	300	29	15.2	9.6	314	29	8.7	3.1	037	30	6.8	2.1	337
3.0 ,,	30	20.3	17.1	299	27	15.8	12.4	301	29	17.2	13.8	293	25	16.8	12.9	292	28	8.9	4.6	118	30	9.2	4.3	084
3.6 ,,	30	21.3	18.3	296	26	17.7	13.6	293	29	20.0	14.8	293	13	13.5	11.0	270	24	10.3	6.1	150	29	10.6	4.3	105
4.5 ,,	30	20.0	16.1	297	25	18.4	14.5	286	28	21.4	16.4	287	6	17.0	16.3	269	9	14.0	7.2	183	25	12.3	2.6	218
5.4 ,,	29	20.9	17.3	288	25	20.0	15.4	276	28	23.1	19.9	286									17	17.0	1.7	237
6.0 ,,	29	21.5	17.7	285	25	20.8	17.0	277	28	24.4	20.4	285									15	20.2	3.1	279
7.2 ,,	29	26.2	21.3	281	18	26.9	23.0	271	27	26.5	22.0	281									14	25.6	11.7	274
9.0 ,,	29	36.2	31.4	274	13	37.5	35.8	271	24	39.3	35.5	275									7	43.7	39.3	256

Station	POONA												PORT BLAIR												RAIPUR											
	2330				0530*				1130				1730*				2330				0530															
Time in I. S. T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D												
Surface.	30	1.2	0.8	257	30	1.7	0.5	049	30	5.0	4.5	081	30	3.5	2.1	063	30	3.3	1.7	034	30	5.2	3.6	225												
0.15 a. g.	29	9.2	7.9	291	30	6.7	3.2	034	30	5.5	5.1	072	30	7.5	4.8	073	30	5.7	3.7	040	29	14.4	9.9	241												
0.3 a. m. s. l.					30	6.5	3.3	035	30	5.5	4.8	067	30	7.6	5.1	070	30	5.8	4.0	050																
0.6 ,,	29	4.0	3.3	260	30	6.7	2.8	056	30	5.3	2.3	067	30	6.0	4.3	044	30	5.7	4.4	059	29	16.3	11.3	248												
0.9 ,,	29	11.7	10.3	306	30	7.5	4.0	080	30	5.3	2.5	068	30	5.7	4.2	037	30	5.2	4.2	070	29	16.5	11.6	251												
1.5 ,,	29	11.7	8.9	337	30	8.8	7.3	099	28	6.2	5.2	094	29	7.2	5.6	070	30	6.1	4.7	095	29	11.7	9.5	271												
2.1 ,,	29	8.7	3.1	028	30	11.7	10.1	098	27	8.1	6.9	096	29	9.5	7.9	092	25	8.1	6.7	104	29	10.2	7.1	284												
3.0 ,,	28	9.6	6.5	105	30	11.5	10.1	098	27	9.4	7.8	094	29	10.7	7.8	095	19	7.4	5.0	092	25	9.8	6.3	301												
3.6 ,,	26	10.5	6.9	138	30	9.6	7.4	092	26	9.4	7.2	093	30	9.7	7.2	092	16	6.1	3.3	088	15	10.5	6.8	320												
4.5 ,,	11	13.4	5.0	152	30	8.0	4.7	093	25	8.1	6.2	099	30	8.1	4.2	080	10	5.5	1.5	123	8	8.5	5.3	329												
5.4 ,,	5	18.4	2.7	178	30	8.5	3.6	106	23	7.3	5.0	094	30	8.2	4.9	088	3	7.7	5.6	145	3	11.0	9.4	255												
6.0 ,,	3	19.3	17.4	256	30	7.4	1.1	084	22	8.4	5.6	099	29	8.2	4.2	122	3	5.7	5.6	110	2	18.0	16.3	244												
7.2 ,,					29	8.2	2.4	184	19	7.6	4.4	112	28	8.4	3.9	159					1	11.0	11.0	270												
9.0 ,,					23	11.6	7.5	276	14	9.1	3.2	179	21	12.5	9.1	242					1	40.0	40.0	240												

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level.

April, 1958 (Chaitra 11—Vaisakha 10, 1880 Saka)

Station	RAIPUR								RAXAUL								SANTA CRUZ							
	1730				2330				0530				1730				0530*				1130			
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	3·6	1·7	289	30	7·1	3·9	183	30	2·6	2·5	088	30	4·1	1·2	243	30	2·6	1·3	013	30	6·9	5·2	286
0·15 a. g.	30	8·7	5·0	290	28	14·4	6·6	200	29	17·4	14·5	094	30	11·6	3·5	254	30	9·9	6·3	352	29	6·2	4·6	297
0·3 a. m. s. l.									29	18·6	14·8	102	30	12·0	4·2	257	30	10·2	6·9	348	29	5·9	3·5	339
0·6 „	30	9·5	6·4	288	28	14·3	6·2	208	29	17·6	11·0	115	30	13·0	5·7	263	30	11·1	7·7	351	29	7·7	5·0	021
0·9 „	30	8·6	6·6	284	28	11·4	4·8	236	29	14·3	4·9	128	30	13·4	6·0	266	30	11·4	8·0	350	29	10·2	6·4	023
1·5 „	30	7·6	6·1	280	28	8·4	5·2	267	29	11·1	3·6	274	30	14·4	9·3	280	30	11·1	6·6	358	28	10·0	4·1	013
2·1 „	30	8·2	6·1	281	27	7·9	6·0	290	29	11·1	7·6	278	30	15·5	12·7	278	30	10·0	2·5	338	27	8·4	0·6	211
3·0 „	30	8·0	5·5	282	27	10·0	6·8	317	27	17·6	17·3	287	28	19·7	18·5	280	30	12·5	2·6	220	26	11·4	6·3	173
3·6 „	29	9·7	6·1	291	23	12·4	8·5	315	25	21·1	20·2	284	25	20·6	19·0	285	30	13·9	5·4	202	25	14·1	7·9	171
4·5 „	26	12·5	8·9	298	10	12·6	7·6	333	20	20·9	20·4	290	16	19·9	18·9	288	30	15·5	8·8	192	25	15·1	7·5	196
5·4 „	18	1·1	11·9	286	4	12·0	7·0	233	18	21·8	21·2	287	11	17·3	16·4	289	30	17·6	6·7	222	24	18·1	6·5	241
6·0 „	18	16·5	14·1	282	3	19·3	9·8	230	13	20·0	18·8	293	8	16·0	15·7	284	30	19·4	7·1	260	23	21·5	9·0	250
7·2 „	14	25·8	23·9	284	2	23·5	4·4	180	4	20·5	19·5	265	4	18·5	17·1	299	30	24·5	13·4	258	21	26·0	10·9	254
9·0 „	9	38·7	36·2	273					2	20·5	19·0	267	1	31·0	31·0	280	27	35·0	29·6	261	14	35·9	28·4	261

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

April 1958 (Chaitra 11—Vaisakha 10, 1880 Saka)

Station	TIRUCHIRAPALLI										TRIVANDRUM																	
	Time in I.S.T.				0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1·5	0·4	122	30	6·7	5·8	127	30	6·0	4·7	141	30	3·2	2·5	011	30	3·4	1·2	29	30	5·9	2·9	245				
0·15 a. g.	30	6·2	2·4	193	29	9·0	7·9	123	30	12·3	10·5	117	30	3·9	2·6	018	30	5·1	1·8	257	30	6·1	3·2	243				
0·3 a.m.s. 1.	30	6·9	3·3	191	29	9·2	8·3	122	30	13·2	11·1	145	30	4·3	2·6	016	30	4·9	1·7	254	30	6·1	2·5	240				
0·6 „	30	7·9	5·5	175	29	9·2	8·2	120	30	14·0	12·0	145	30	5·4	2·6	030	30	4·7	0·3	260	30	6·5	0·8	217				
0·9 „	30	7·6	5·7	166	29	8·8	7·8	116	30	10·5	9·1	139	30	6·6	1·8	033	29	4·5	1·5	091	30	6·5	1·1	075				
1·5 „	29	5·9	3·7	100	29	7·6	6·2	104	30	7·7	5·1	105	30	8·2	4·5	059	18	8·5	6·6	078	30	8·5	6·7	062				
2·1 „	28	9·7	8·5	076	29	8·4	7·0	110	30	9·3	7·9	068	30	10·3	8·0	072	13	12·5	10·5	077	30	11·2	10·3	068				
3·0 „	28	12·3	11·1	071	28	12·4	10·9	058	30	11·8	10·5	072	30	13·0	11·0	074	6	14·8	14·6	083	30	11·1	9·8	077				
3·6 „	26	12·7	10·7	074	24	15·6	13·5	063	26	13·8	11·5	070	29	12·4	10·2	076	6	15·7	15·4	082	30	10·3	8·7	072				
4·5 „	21	9·8	7·1	067	22	11·5	7·6	072	21	10·9	8·2	084	29	10·7	7·4	080	2	11·0	10·9	086	30	9·4	6·3	084				
5·4 „	6	5·8	2·4	107	20	11·9	4·6	116	8	12·5	1·3	167	29	10·5	3·8	090	1	5·0	5·0	075	29	10·5	4·9	091				
6·0 „	4	8·0	3·5	082	14	10·1	3·1	089	5	13·6	0·6	139	29	11·4	4·0	073	1	12·0	12·0	070	27	11·1	5·1	099				
7·2 „	1	17·0	17·0	035	10	12·6	0·6	051	1	7·0	7·0	280	28	11·1	2·0	156					27	12·1	1·4	116				
9·0 „					5	18·6	10·7	308					25	14·8	3·7	230					25	13·1	3·7	219				

TABLE IV--MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 km. above mean sea level

April, 1938 (Chennai 22°—Visakhapatnam 16° latitude)

Station	VENGURLA				VERAVAL								VISAKHAPATNAM											
Time in I. S. T.	2330				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	2·7	1·7	318	30	5·8	4·8	325	30	8·8	7·1	278	30	13·9	13·5	275	30	8·8	7·6	298	30	2·5	1·8	240
0·15 a. g.	30	8·1	5·9	340	30	15·8	13·7	312	30	8·5	6·6	293	30	17·3	16·1	279	30	15·7	14·3	303	30	8·9	7·8	236
0·3 a. m. s. l.	30	10·0	7·8	347	30	16·1	13·8	312	30	9·4	6·3	317	30	16·7	15·3	282	30	17·2	16·1	306	30	11·2	10·1	235
0·6 ,,	30	11·4	8·2	349	30	14·9	11·7	309	30	10·6	5·5	321	30	14·2	11·7	284	30	15·4	13·9	304	29	11·2	9·9	238
0·9 ,,	30	12·3	8·1	344	30	13·5	9·6	299	30	10·7	4·2	316	30	12·0	8·6	290	30	12·1	10·1	303	29	9·3	6·6	236
1·5 ,,	30	9·3	3·5	321	30	12·1	6·2	284	30	10·9	3·7	266	30	11·5	4·9	303	29	11·2	7·0	294	28	5·0	1·0	270
2·1 ,,	28	7·3	4·5	060	30	12·5	5·9	248	30	11·9	5·0	219	30	11·0	4·1	284	25	11·2	3·6	207	28	6·9	3·7	018
3·0 ,,	28	11·7	10·2	083	30	13·9	5·9	222	28	13·3	6·4	200	30	14·3	4·8	210	22	13·5	7·1	206	28	8·9	5·8	024
3·6 ,,	13	13·0	10·2	086	30	15·0	6·1	208	28	14·6	6·7	270	30	15·1	5·3	210	15	13·8	6·1	210	23	9·3	4·1	013
4·5 ,,	2	12·5	11·3	080	30	16·0	6·5	192	26	16·5	6·9	191	30	16·1	1·4	181	7	12·0	5·1	113	15	11·7	2·9	320
5·4 ,,					30	17·3	6·4	233	24	16·9	5·6	240	30	18·1	5·6	235	7	14·3	2·8	164	11	15·8	9·1	262
6·0 ,,					30	20·1	7·3	22	24	20·5	8·2	248	29	20·9	6·4	240	5	15·8	1·8	22	8	17·9	13·5	258
7·2 ,,					30	28·2	17·2	24	24	28·5	13·4	260	29	24·3	14·2	261	2	20·5	6·3	326	5	19·8	14·2	289
9·0 ,,					28	38·9	30·8	28	24	37·0	22·4	260	28	37·2	29·3	262					1	21·0	21·0	305

Station	VISAKHAPATNAM							
Time in I. S.	1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D
Surface	30	11·5	10·7	222	30	4·7	4·1	213
0·15 a. g.	31	11·6	11·0	206	30	7·7	6·9	221
0·3 a. m. s. l.	30	11·5	10·7	213	30	9·5	8·3	230
0·6 ,,	30	10·3	9·3	220	30	10·5	8·9	240
0·9 ,,	30	9·8	8·2	230	30	8·3	6·4	240
1·5 ,,	29	8·1	4·2	273	29	6·2	0·1	256
2·1 ,,	26	6·9	3·1	019	28	6·9	3·6	035
3·0 ,,	24	9·7	8·2	040	27	8·6	4·4	017
3·6 ,,	22	9·9	8·4	047	23	10·7	4·0	356
4·5 ,,	20	13·4	8·5	024	17	13·2	5·3	316
5·4 ,,	16	13·9	5·0	014	4	15·5	13·8	241
6·0 ,,	14	16·1	6·1	012	3	19·0	14·9	235
7·2 ,,	5	18·4	9·0	286				
9·0 ,,	1	26·0	26·0	090				

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9.0 km. above mean sea level
April 1958 (Chaitra 11—Vaisakha 10, 1880 Saka)

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9.0 km. above mean sea level

April 1950 (Chaitra 11—Vaisakha 10, 1850 Saka)

Ht. in Km.	n	V	v	D	Ht. in Km.	n	V	v	D	Ht. in Km.	n	V	v	D	Ht. in Km.	n	V	v	D
MUSSOORIE																			
1730 hrs.																			
10·5	5	28·0	26·5	272	10·5	23	46·5	40·7	271	10·5	26	46·7	44·9	259	10·5	20	38·9	37·6	235
12·0	3	36·7	35·3	265	12·0	19	56·6	47·9	271	12·0	18	58·7	53·8	253	12·0	12	49·1	45·1	265
14·1	2	49·0	48·3	270	14·1	14	52·7	45·3	276	14·1	14	58·0	51·8	247	14·1	4	33·2	31·5	248
NAGPUR																			
0530 hrs.*																			
10·5	24	44·2	42·3	257	21·0	4	12·3	3·4	099										
12·0	22	51·2	44·5	260						10·5	9	49·3	38·7	269	10·5	27	50·3	40·5	265
14·1	16	42·7	36·4	270						12·0	3	50·3	48·3	269	12·0	23	45·0	43·5	252
16·2	10	40·4	39·6	269	10·5	5	50·2	39·8	249	14·1	2	57·5	56·2	262	14·1	21	44·3	37·9	265
18·0	8	30·5	29·3	257	12·0	3	44·0	35·7	262	16·2	1	49·0	49·0	245	16·2	13	32·7	25·4	270
21·0	4	16·2	13·2	283	14·1	1	7·0	7·0	115						18·0	9	36·0	23·0	265
24·0	3	29·7	25·2	264	16·2	1	3·0	3·0	175	10·5	21	41·9	35·6	250	21·0	3	51·0	49·0	268
27·0	1	44·0	41·0	310	18·0	1	26·0	26·0	085	12·0	16	52·4	50·1	296					
30·0	1	58·0	53·0	300						14·1	10	60·1	51·5	242					
33·0	1	68·0	68·0	290						16·2	3	52·7	29·0	250					
36·0	1	68·0	68·0	300						18·0	2	39·5	21·0	349					
1130 hrs.																			
10·5	5	73·6	65·5	259	12·0	11	21·4	18·3	243										
12·0	1	58·0	58·0	295	14·1	6	23·7	19·6	243										
14·1	1	56·0	56·0	295	16·2	4	23·7	19·0	273	10·5	25	16·6	8·5	224					
1730 hrs.*																			
10·5	23	47·9	39·5	263						11·1	12	20·6	11·3	258					
12·0	22	54·3	47·5	260	10·5	5	12·8	6·8	240	16·2	4	12·0	3·9	075					
14·1	15	38·8	34·1	262	12·0	2	21·0	14·3	206										
16·2	11	33·2	31·6	258						12·0	22	20·7	10·6	241					
18·0	8	32·5	15·9	260	10·5	14	16·6	12·3	249	10·5	21	16·0	9·0	241					
21·0	4	16·7	16·4	235	12·0	11	21·2	13·6	243	16·2	7	15·4	4·2	291					
NEW DELHI																			
0530 hrs.*																			
10·5	28	45·7	40·3	267	18·0	1	19·0	19·0	230										
12·0	26	57·9	53·4	264	21·0	1	14·0	14·0	160										
14·1	18	57·5	55·5	265	24·0	1	9·0	9·0	250	10·5	4	38·0	35·5	272					
16·2	13	42·2	39·8	269	27·0	1	34·0	34·0	200	12·0	1	51·0	51·0	285					
18·0	7	29·7	28·6	264															
21·0	2	19·0	13·7	303															
RAIPUR																			
VERAVAL																			
1130 hrs.																			
0530 hrs.																			
10·5	4	35·3	34·5	271	10·5	1	36·0	36·0	270	10·5	25	47·0	41·4	260					
12·0	3	39·3	38·0	278						12·0	22	53·8	47·1	257					
14·1	1	51·0	51·0	245	10·5	6	55·0	50·6	272	14·1	18	58·4	49·0	260					
16·2	1	37·0	37·0	240	12·0	3	59·7	54·1	276	16·2	11	37·2	30·4	248					
18·0	1	18·0	18·0	220	14·1	1	81·0	81·0	275	18·0	2	22·0	21·9	261					

RADIOSONDE DATA

April 1958 (Chaitra 11—Vaisakha 10, 1958 Saka)

During the month, observations of upper air temperature, pressure and humidity were made at 13 stations in India as given in the list below. (For a detailed description of the instruments used, a reference may be made to the I.M.D. Scientific Notes Nos. 112 and 113 Volume IX).

LIST OF RADIOSONDE STATIONS IN INDIA

S. No.	Name of station	Type of instrument used	Date of starting	Hours of routine observations in G.M.T. during the month	Remarks
1	Allahabad	Clock type	1st October 1944	00 and 12	
2	Amritsar	Clock type	21st June 1957	00 and 12	
3	Bombay	Clock type	7th September 1954	00 and 12	
4	Calcutta	Clock type	13th December 1946	00 and 12	Fan type used from 13-12-46 to 30-11-47.
5	Gauhati	Clock type	22nd July 1955	00 and 12	
6	Jodhpur	Clock type	17th April 1946	00 and 12	
7	Madras	Fan type	29th June 1946	00 and 12	
8	Nagpur	Fan type	1st October 1946	00 and 12	
9	New Delhi	Clock type	3rd December 1943	00 and 12	
10	Port Blair	Fan type	4th December 1949	00 and 12	
11	Trivandrum	Fan type	1st July 1947	00 and 12	
12	Veraval	Fan type	3rd October 1944	00 and 12	
13	Visakhapatnam	Fan type	8th December 1946	00 and 12	

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 00 Hours G. M. T.

April 1958 (Chaitra 11—Vaisakha 10, 1880 Saka)

Standard Pressure Surface mbs.	ALLAHABAD Surf. Pr. (995 mb.)							AMRITSAR (980 mb.)							BOMBAY (1007 mb.)						
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A						
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			
Surface	30	098	299·0	304	295	286·1	29	230	294·1	302	288	284·1	30	013	298·8	302	296	295·3			
1000	30	050	..	..	..	..	26	051	..	..	..	..	30	079	..	..	..	..
900	30	985	301·3	307	294	278·5	26	972	299·1	306	287	277·8	30	1006	297·6	301	295	282·5			
850	30	1488	297·9	303	290	274·8	26	1472	295·5	303	284	274·2	30	1506	295·9	301	293	278·3			
800	30	2015	293·8	298	287	272·3	26	1995	292·2	301	282	272·8	30	2029	293·0	297	290	277·6			
700	30	3147	284·1	290	278	268·0	26	3123	283·6	291	276	267·4	30	3165	285·2	290	282	273·4			
600	30	4409	274·0	283	269	258·6	26	4382	272·8	280	267	262·7	30	4435	276·1	281	272	264·7			
500	29	5848	264·3	272	256	..	25	5815	262·8	268	258	..	30	5887	267·1	273	263	..			
400	28	7538	252·4	259	247	..	23	7495	250·8	257	244	..	30	7599	256·1	261	248	..			
300	28	9601	237·7	244	224	..	20	9547	235·1	240	225	..	26	9700	241·5	247	230	..			
250	28	10846	229·3	236	219	..	20	10756	225·9	233	214	..	25	10964	232·3	238	219	..			
200	28	12316	220·1	228	211	..	19	12242	218·0	227	208	..	20	12443	222·0	228	208	..			
175	26	13218	216·1	225	208	..	17	13128	215·3	223	207	..	16	13336	218·5	223	213	..			
150	25	14165	213·2	223	206	..	17	14089	214·3	221	207	..	15	14317	213·8	219	207	..			
125	23	15313	209·1	218	199	..	16	15239	212·1	219	205	..	11	15419	207·3	216	198	..			
100	23	16673	205·3	213	197	..	12	16689	210·8	221	200	..	7	16744	200·6	206	195	..			
80	18	18014	203·4	210	193	..	10	18076	209·3	221	201	..	6	18059	199·7	205	191	..			
	CALCUTTA (1007 mb.)							GAUHATI (1004 mb.)							JODHPUR (982 mb.)						
Surface	30	006	298·8	301	294	296·9	30	049	295·8	299	293	293·7	30	218	300·6	308	295	282·3			
1000	30	066	..	..	..	..	30	084	..	..	..	..	30	060	..	..	..	..
900	30	989	297·5	302	292	285·6	30	999	293·7	297	289	287·8	30	992	300·3	310	296	278·4			
850	30	1487	295·2	300	290	280·5	30	1491	290·8	295	287	285·1	30	1494	297·3	307	291	275·8			
800	29	2008	291·8	297	280	277·8	30	2007	287·8	291	283	282·3	30	2021	293·6	303	288	274·2			
700	29	3138	283·6	290	277	272·6	30	3122	281·0	285	275	274·3	30	3153	284·6	293	278	267·1			
600	29	4401	274·1	283	270	264·2	30	4377	273·9	281	268	269·9	30	4417	274·5	283	269	258·3			
500	29	5844	265·1	272	259	..	30	5821	265·8	272	261	..	29	5862	264·3	272	258	..			
400	29	7543	254·6	261	243	..	30	7524	254·8	262	249	..	29	7555	252·1	261	243	..			
300	24	9634	239·8	247	233	..	23	9629	241·7	250	233	..	27	9624	237·4	245	233	..			
250	20	10887	230·9	237	224	..	18	10884	232·9	239	226	..	27	10873	229·0	237	220	..			
200	19	12371	221·1	228	215	..	17	12375	224·3	231	218	..	26	12349	221·1	230	214	..			
175	17	13282	216·3	225	210	..	9	13230	219·0	225	215	..	24	13203	217·2	223	211	..			
150	13	14313	212·2	221	206	..	8	14216	214·0	220	208	..	21	14192	213·7	219	207	..			
125	6	15423	209·3	214	204	..	.	.	.	.	.	.	16	15336	208·5	216	199	..
100	6	16791	206·0	209	202	..	.	.	.	.	.	.	12	16675	203·7	215	194	..
80	..	..	..	..	..	..	..	..	..	..	..	..	6	17994	205·3	213	199	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 00 Hours G. M. T.

April 1958 (Chaitra 11—Vaisakha 10, 1880 Saka)

Standard Pressure Surface mbs.	MADRAS Surf. Pr. (1007 mb.)							NAGPUR (973 mb.)							NEW DELHI (983 mb.)						
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A						
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			
Surface	30	015	300.8	302	299	297.6	30	311	292.9	303	296	287.0	30	210	296.7	304	290	285.7			
1000	30	078	..	..	..	..	30	067	..	..	..	..	30	055	..	..	..	..
900	30	1004	296.7	300	293	281.3	30	1002	301.3	304	295	281.5	30	983	300.2	305	292	278.7			
850	30	1501	294.8	299	291	281.2	30	1505	298.1	303	293	278.6	30	1484	297.1	303	288	275.3			
800	30	2025	292.0	295	287	277.8	30	2033	294.1	300	289	277.2	30	2009	292.8	298	285	273.7			
700	29	3157	285.2	289	280	271.7	30	3170	284.9	291	281	272.6	30	3140	283.7	290	278	267.0			
600	28	429	277.2	281	273	264.1	29	4133	275.1	283	271	262.9	30	4400	273.6	279	268	256.3			
500	28	5887	268.9	275	266	..	29	5877	265.8	271	262	..	30	5836	263.5	272	257	..			
400	28	7613	258.8	264	254	..	29	7565	255.4	260	249	..	30	7520	250.7	257	245	..			
300	23	9727	244.1	249	237	..	28	9684	241.9	248	237	..	30	9574	235.9	246	227	..			
250	23	11005	235.1	239	226	..	25	10956	233.0	239	225	..	30	10813	228.9	240	219	..			
200	19	12483	223.1	228	214	..	23	12462	223.9	233	217	..	30	12274	219.4	233	205	..			
175	14	13340	216.5	224	206	..	21	13336	219.5	225	211	..	30	13131	217.2	230	210	..			
150	14	14324	211.1	217	198	..	18	14338	215.4	221	207	..	28	14112	214.3	223	207	..			
125	10	15441	205.7	216	192	..	10	15448	210.2	215	204	..	27	15250	210.3	218	203	..			
100	7	16771	201.0	213	185	..	7	16760	206.6	213	203	..	25	16619	206.5	214	200	..			
80	6	18143	203.5	213	188	..	5	18176	206.8	215	199	..	20	17966	206.8	213	198	..			
PORT BLAIR (1001 mb.)										TRIVANDRUM (1002 mb.)							VERAVAL (1008 mb.)				
Surface	30	0.9	298.8	302	296	297.0	30	064	299.4	301	297	296.7	30	008	297.6	302	293	294.7			
1000	30	089	..	..	..	..	30	078	..	..	..	..	30	080	..	..	..	..
900	30	1017	295.8	301	293	290.1	30	1005	295.6	298	291	290.3	30	1007	299.4	307	296	279.2			
850	30	1514	293.7	301	291	286.0	30	1501	292.5	295	289	286.2	30	1508	296.4	302	292	276.8			
800	30	2037	290.7	294	288	283.3	30	2021	289.8	293	285	282.5	30	2032	292.4	299	289	275.5			
700	30	3168	284.5	290	281	275.4	30	3147	283.9	287	275	273.7	30	3162	284.4	291	279	269.0			
600	30	4443	278.4	282	274	266.1	29	4416	277.0	283	269	267.3	30	4429	276.0	280	271	262.8			
500	30	5908	270.2	277	265	..	29	5875	268.9	276	258	..	30	5881	266.7	272	262	..			
400	30	7645	259.4	263	253	..	28	7603	258.5	263	247	..	30	7592	256.2	263	251	..			
300	24	9775	244.7	252	236	..	25	9728	243.7	249	235	..	29	9691	242.2	248	236	..			
250	20	11048	233.9	240	226	..	25	11006	234.2	240	227	..	27	10968	233.9	240	226	..			
200	9	12517	223.0	228	215	..	23	12516	223.5	231	216	..	26	12465	224.0	233	215	..			
175	8	13433	218.9	224	210	19	13360	216.1	225	207	..	22	13355	220.9	229	212	..				
150	7	14389	214.1	218	206	16	14311	209.4	215	198	..	21	14343	216.1	225	208	..				
125	5	15546	209.2	212	206	7	15389	203.6	213	193	..	18	15513	212.2	221	204	..				
100				..	..	..	..	..	..	..	..	14	16869	207.8	215	203	..	
80				..	..	..	..	..	..	..	..	9	18192	207.2	213	203	..	

RADIOSONDE DATA**TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES**

(A) From Ascents at 00 Hours G. M. T.

April 1958 (Chaitra 11—Vaisakha 10, 1958, Salem)

Standard Pressure Surface mbs.	VISAKHAPATNAM Surf. Pr. (1003 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	30	048	300.3	302	297	297.1
1000	30	075	..	..	..	..
900	30	1004	297.2	301	293	287.7
850	30	1504	295.6	300	290	282.8
800	30	2028	292.5	296	288	281.3
700	30	3161	284.5	287	279	275.2
600	30	4429	275.9	281	271	266.6
500	29	5884	267.6	272	261	..
400	29	7602	256.8	263	252	..
300	24	9722	243.3	253	238	..
250	23	11001	234.8	243	227	..
200	19	12479	222.9	230	213	..
175	17	13327	217.7	224	206	..
150	15	14308	210.9	224	199	..
125	12	15408	215.9	218	200	..
100	11	16773	201.7	212	193	..
80						

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 12 Hours G. M. T.

April 12 1958 (Chaitra 11—Vaisakha 10, 1958 Saka)

Standard Pressure Surface mbs.	ALLAHABAD Surf. Pr. (993 mb.)						AMRITSAR (979 mb.)						BOMBAY (1006 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	98	311.5	314	308	285.2	29	230	308.0	315	297	283.5	30	13	304.7	308	303	295.7
1000	30	30	..	..	..	..	29	39	..	..	..	..	30	65	..	..	..	..
900	30	985	304.7	309	297	279.1	29	985	303.6	312	291	275.1	30	1002	300.7	305	296	281.9
850	30	1492	300.1	305	293	275.8	29	1493	299.1	307	288	271.5	30	1506	297.9	300	292	279.0
800	30	2022	295.4	300	288	274.2	29	2022	294.7	303	285	269.9	30	2034	294.7	299	288	277.2
700	30	3159	285.6	292	276	266.3	29	3158	285.5	294	277	262.6	30	3175	286.5	296	279	272.6
600	30	4428	275.6	283	270	253.8	29	4423	275.2	287	269	245.6	30	4451	277.2	286	268	262.3
500	30	5875	265.6	273	259	..	29	5866	265.4	273	255	..	30	5909	268.0	274	262	..
400	30	7575	254.0	259	248	..	29	7563	253.0	261	247	..	30	7627	257.3	263	250	..
300	28	9653	239.2	244	232	..	28	9632	237.7	251	231	..	26	9754	244.1	249	239	..
250	28	10909	230.3	236	225	..	25	10888	229.5	242	222	..	19	10046	235.8	241	229	..
200	26	12390	221.8	229	214	..	22	12335	220.0	228	207	..	17	12559	226.5	231	217	..
175	26	13255	217.3	224	206	..	18	13197	217.3	225	206	..	14	13439	221.5	226	211	..
150	24	14217	213.4	220	208	..	17	14208	214.7	223	203	..	10	14395	214.9	211	210	..
125	22	15358	208.8	216	203	..	13	15367	212.6	222	201	..	6	15497	209.2	214	206	..
100	19	16723	204.9	212	198	..	10	16729	207.2	213	197	..	..	..	..	..	..	..
80	15	18077	205.5	213	195	..	8	17975	207.4	212	195	..	..	..	..	..	..	..
	CALCUTTA (1004 mb.)						GAUHATI (1001 mb.)						JODHPUR (980 mb.)					
Surface	30	6	306.4	310	304	297.0	30	49	301.9	305	297	295.4	30	218	311.7	318	307	282.9
1000	30	43	..	..	..	..	30	55	..	..	..	..	30	36	..	..	..	..
900	30	984	301.1	306	295	290.0	30	982	296.8	300	293	289.0	30	993	305.5	314	299	277.3
850	30	1487	297.9	303	291	285.5	30	1481	293.8	297	290	286.2	30	1501	301.3	309	296	273.3
800	30	2015	274.5	299	288	280.8	30	2002	290.5	294	287	282.9	30	2032	296.5	304	290	272.8
700	30	3154	28.9	291	283	273.6	30	3128	283.3	287	280	275.0	30	3174	286.0	294	280	266.8
600	30	4426	276.5	283	272	262.5	30	4393	276.0	281	271	262.7	29	4445	276.5	283	270	257.1
500	30	5883	267.4	273	262	..	30	5845	267.2	272	258	..	29	5893	265.6	274	259	..
400	30	7600	256.6	263	251	..	30	7557	256.3	262	253	..	29	7595	253.9	264	244	..
300	27	9711	242.9	250	234	..	26	9651	241.5	249	238	..	28	9681	239.1	248	228	..
250	25	10990	234.4	239	225	..	23	10930	233.3	241	229	..	26	10931	230.7	243	219	..
200	23	12503	225.0	229	217	..	20	12429	225.2	232	218	..	25	12417	222.1	234	210	..
175	19	13365	220.3	225	209	..	14	13318	220.5	228	212	..	23	13303	219.3	228	211	..
150	17	14359	215.1	222	205	..	9	14287	217.1	227	211	..	22	14268	215.3	225	208	..
125	14	15440	208.6	216	201	..	5	15396	211.2	215	207	..	19	15434	211.2	219	202	..
100	13	16811	203.5	219	193	..	5	16767	208.8	213	204	..	17	16815	206.5	217	197	..
80	6	18152	204.7	222	197	..							10	18271	204.4	214	192	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 12 Hours G. M. T.

April 1958 (Chaitra 11—Vaisakha 10, 1880 Saka)

Standard Pressure Surface mbs.	MADRAS Surf. Pr. (1005 mb.)							NAGPUR (970 mb.)							NEW DELHI (981 mb.)						
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A						
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			
Surface	30	15	304·0	305	302	297·3	30	311	310·5	314	304	284·8	30	210	308·6	315	301	287·1			
1000	30	64	...	...	...	...	30	31	...	...	...	...	29	35	...	...	...	...
900	30	999	299·2	302	296	286·2	30	988	306·2	310	302	279·8	29	985	304·1	309	299	276·5			
850	30	1500	296·0	300	290	282·0	30	1499	301·6	306	297	277·8	29	1491	299·8	306	294	273·2			
800	30	2025	292·9	296	289	279·6	30	2031	297·2	302	292	276·8	29	2021	295·1	303	289	271·7			
700	30	3161	286·3	291	281	273·2	30	3177	286·3	291	281	272·8	29	3159	285·4	294	280	266·3			
600	30	4434	278·4	285	274	266·2	30	4450	275·6	283	270	266·7	29	4426	275·1	283	269	253·2			
500	30	5900	270·2	274	265	..	28	5899	266·6	272	262	..	29	5869	264·7	272	259	..			
400	30	7633	259·3	265	253	..	28	7604	255·7	262	250	..	29	7561	251·8	262	244	..			
300	25	9781	246·7	253	241	..	26	9711	241·4	250	236	..	26	9621	236·5	246	227	..			
250	22	11063	236·6	242	231	..	24	10980	233·4	241	228	..	26	10862	227·7	237	215	..			
200	18	12559	224·4	232	217	..	23	12472	223·1	233	213	..	26	12320	219·4	229	210	..			
175	18	13439	217·9	223	207	..	20	13357	218·1	227	207	..	23	13197	217·1	226	208	..			
150	15	14420	211·7	217	207	..	19	14311	212·9	222	201	..	23	14167	213·5	224	204	..			
125	13	15515	206·2	213	203	..	18	15434	209·2	219	199	..	17	15293	210·2	218	202	..			
100	8	16824	201·1	204	198	..	11	16777	204·5	212	197	..	17	16646	206·9	215	194	..			
80							7	18033	204·7	214	194	..	12	18052	206·1	215	200	..			
	PORT BLAIR (1000 mb.)							TRIVANDRUM (1000 mb.)							VERAVAL (1008 mb.)						
Surface	30	79	302·5	304	297	297·0	30	64	303·2	305	299	297·4	30	8	302·5	306	300	297·4			
1000	30	77	...	...	..	..	30	67	...	..	..	..	30	77	..	..	..	..
900	30	1009	296·3	298	294	292·9	30	1001	296·9	300	294	292·2	30	1011	300·3	305	296	280·6			
850	30	1506	293·9	296	292	289·2	30	1499	293·9	297	291	289·2	30	1514	296·8	303	293	278·4			
800	30	2030	290·9	294	289	285·7	30	2022	291·3	295	287	285·9	30	2039	292·9	298	287	277·0			
700	30	3164	285·4	289	282	276·9	30	3157	285·5	290	281	277·5	30	3172	285·1	290	280	270·0			
600	30	4442	278·4	283	274	269·8	30	4436	278·8	283	270	268·9	30	4441	276·8	282	269	263·3			
500	30	5908	269·9	275	265	..	29	5904	270·8	275	265	..	30	5898	267·9	272	262	..			
400	30	7641	259·3	265	255	..	27	7641	260·3	265	250	..	29	7618	256·3	261	252	..			
300	22	9768	244·6	251	235	..	25	9775	245·1	251	235	..	28	9724	242·5	2.8	236	..			
250	17	11061	235·9	241	226	..	20	11073	236·9	246	230	..	27	10999	233·7	239	225	..			
200	11	12556	223·6	229	218	..	17	12580	224·2	231	214	..	24	12500	224·4	232	212	..			
175	7	13389	216·9	220	213	..	12	13397	215·3	223	206	..	24	13370	219·6	228	217	..			
150	6	14363	211·3	214	206	..	10	14371	208·1	218	197	..	24	14349	213·9	222	205	..			
125							5	15520	202·8	206	193	..	19	15475	209·2	219	199	..			
100													17	16837	207·5	212	196	..			
80													12	18209	208·0	218	196	..			

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 12 Hours G. M. T.

April 1958 (Chaitra 11—Vaisakha 10, 1880 Saka)

Standard Pressure Surface mbs.	VISAKHAPATNAM Surf. Pr. (1001 mb.)					
	No. of obs.	Ht. gpm.	Temperature A			
			Mean	Max.	Min.	Dew point
Surface	30	48	303.4	305	303	298.8
1000	29	60	..	..	..	..
910	29	997	299.1	303	294	286.9
850	29	1500	296.7	301	293	283.2
810	29	2026	293.3	297	289	281.2
700	29	3162	285.6	290	282	275.6
600	29	4434	277.0	282	274	268.2
500	29	5895	269.0	274	263	..
400	29	7619	258.4	265	249	..
300	27	9742	245.6	253	238	..
250	23	11037	236.7	243	228	..
200	22	12542	226.6	232	218	..
175	14	13383	220.4	226	213	..
150	12	14367	215.3	221	218	..
125	12	15495	209.7	215	205	..
100	8	16875	204.4	208	202	..
80	5	18196	203.8	207	201	..

NOTE :—Number of observations refer to those of dynamic height.

Means are not worked out for temperature and dew point for the 1000 mb. surface and for dew point for standard pressure surfaces with temperature less than 273 A.

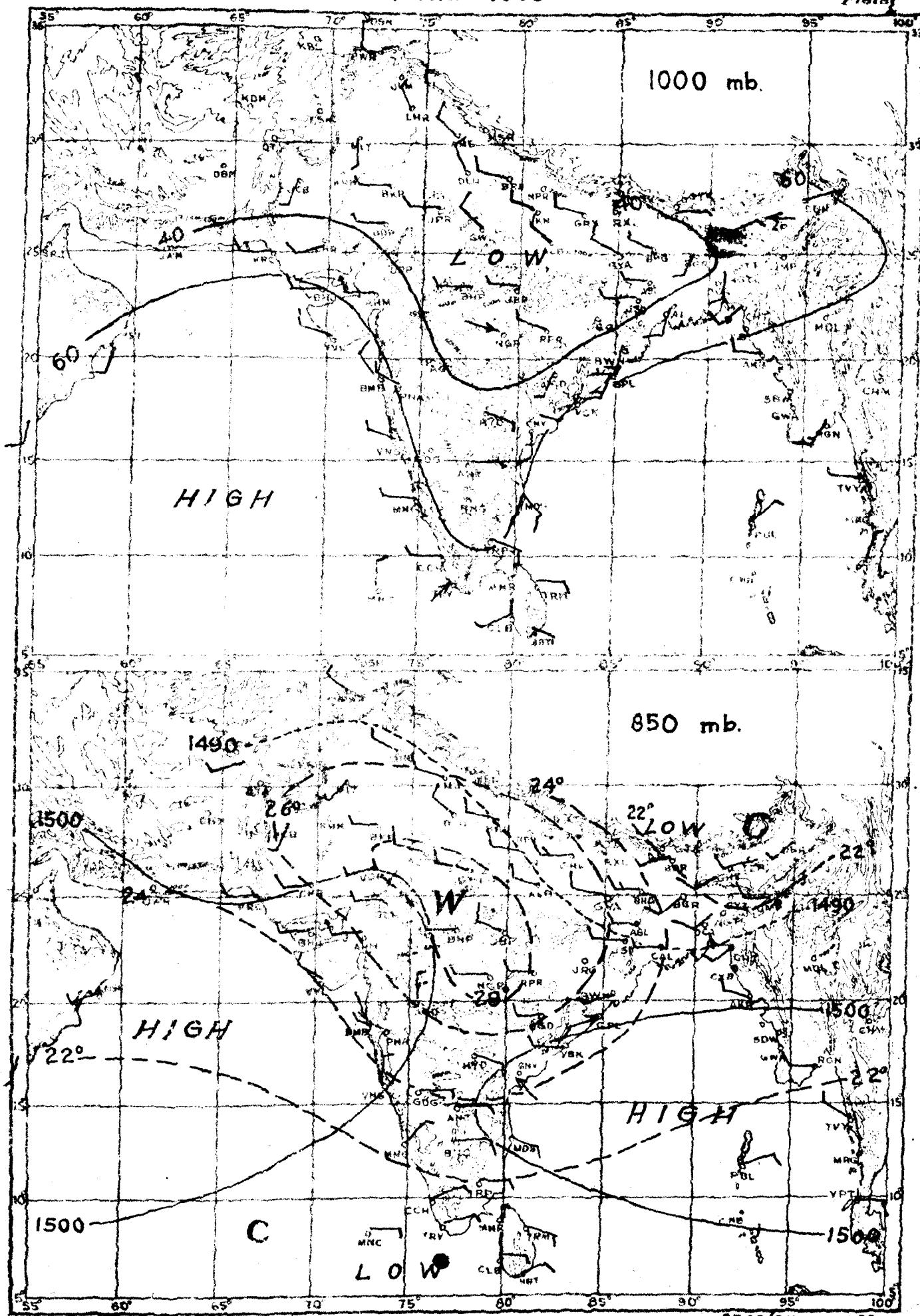
Means are not worked out for less than five observations at standard pressure surfaces.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D.

APRIL 1958

Platoff



RESULTANT WIND — 5 Knots, — 10 Knots, — 50 Knots.

Isotherms in degrees centigrade

Contours in geopotential metres.

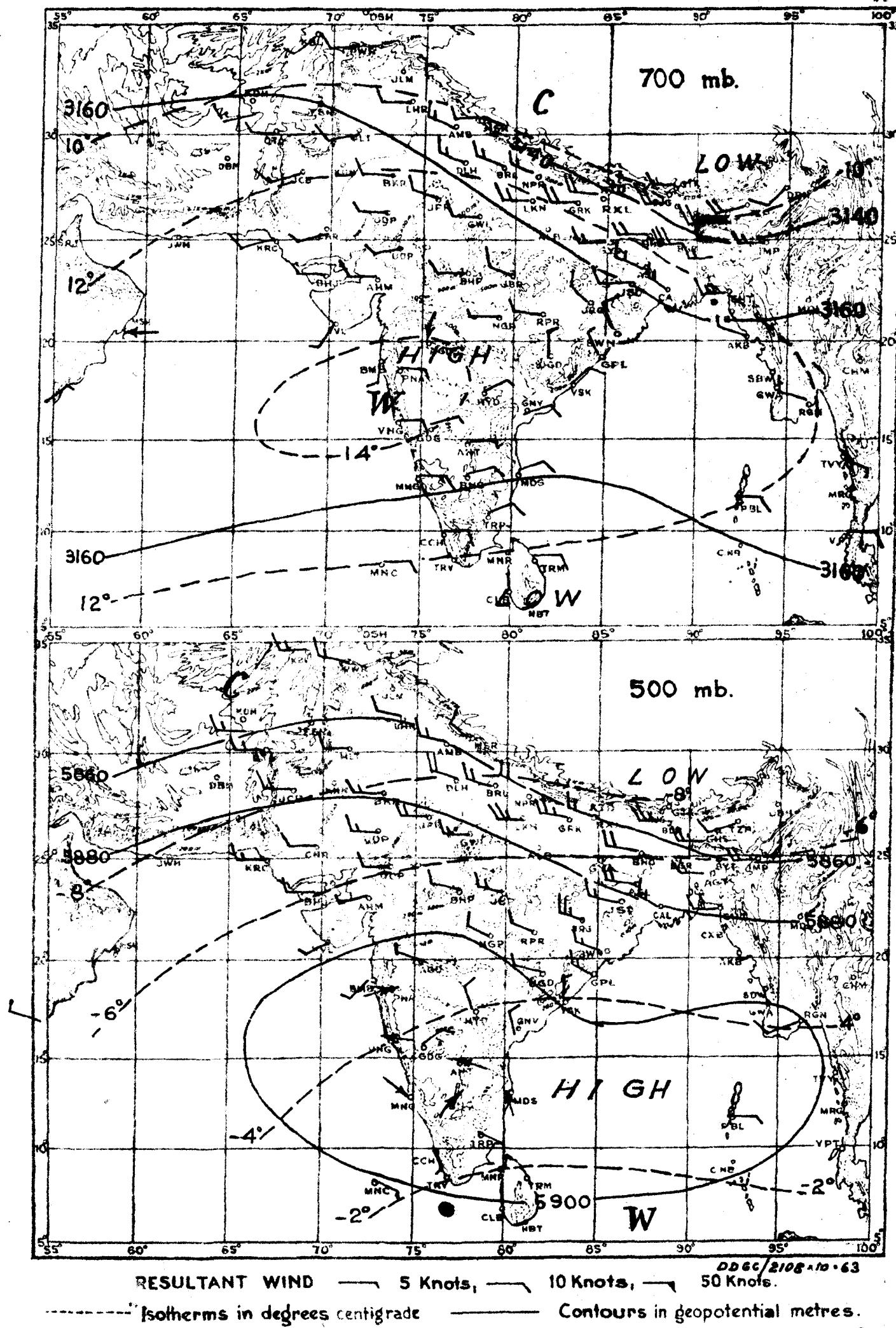
G.P.C. B. PAGWA, 1963

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D.

APRIL 1958

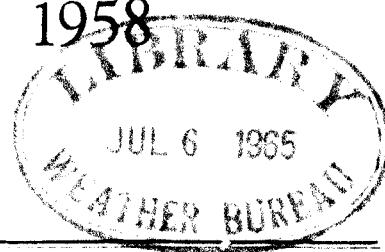
Plate 11



INDIA WEATHER REVIEW, 1958

Monthly Weather Report

May

*Published by authority of the Government of India**Chief features—*

- (1) Western disturbances of the month were generally feeble in intensity;
- (2) One cyclonic storm and one depression formed in the Bay of Bengal; and
- (3) A heat wave affected Gangetic West Bengal, Bihar and parts of east Uttar Pradesh and of Orissa during the last week of the month.

Eight western disturbances moved across the northern parts of the country during the month. The first appeared over Afghanistan on 1st May and moved away across Kashmir on 2nd. It caused scattered thundershowers in the Punjab (I) on 1st and 2nd and in Jammu and Kashmir on 2nd May. The second western disturbance moved as an upper air trough across Jammu and Kashmir on 7th and 8th. It was responsible for local or scattered thundershowers in Jammu and Kashmir from 6th to 8th and for scattered thundershowers in the Kumaon hills on 6th. The third western disturbance appeared over Afghanistan on 9th and moved away across Kashmir by 12th. Local or scattered thundershowers were reported from Kashmir from 10th to 12th. Isolated snow-falls occurred in Kashmir on 10th. The fourth western disturbance was situated over the Punjab (P) on 13th evening and lay as a deep low over the Punjabs on 14th morning. However, it weakened rapidly and then moved away across the Punjab-Kumaon hills by 16th. Under its influence, local or scattered thundershowers occurred in Jammu and Kashmir on 15th and 16th and scattered thundershowers in the Kumaon hills on 16th. Scattered duststorms were reported from north Rajasthan and the plains of the Punjab (I) and also isolated snowfalls from Kashmir on 15th. The fifth western disturbance lay over Afghanistan on 19th and moved into the Punjabs on 20th morning. It persisted over the Punjabs and north Rajasthan until it became unimportant by 21st evening. Jammu and Kashmir experienced local thundershowers on 21st. The sixth and seventh western disturbances moved across the extreme north of the country between 22nd and 25th, causing local or scattered thundershowers in Jammu and Kashmir from 23rd to 25th. The eighth western disturbance of the month appeared over the northern divisions of West Pakistan on 26th as an upper air trough extending upto 4 Kms a.s.l. It shifted to the Punjabs and the adjoining parts of Rajasthan on 27th and became unimportant on 28th. In association with it, local thundershowers were reported from west Rajasthan on 27th and from Himachal Pradesh and the Punjab hills on 28th.

There was an incursion of moist air into the Peninsula early during the month. Fairly widespread or local thundershowers occurred in the south Peninsula on almost all days in the first week of the month. According to press reports, lightning killed a girl in Kozhikode on the evening of 1st May and damaged two residential buildings at Madras on the night of 5th-6th May. Local thundershowers were also reported from Telangana, Vidarbha, Maharashtra and the Konkan on one to two days during the week. Further incursion of moist air took place over the south Peninsula in association with the formation of a shallow depression in the southwest and the adjoining west central Bay of Bengal, with its centre near Lat. 13° N. and Long. 83° E, on the morning of 7th May. The depression took a northnortheasterly course and was centred near Lat. 14.5° N. and Long. 84.0° E, on 8th morning. It, however, weakened into a trough the same evening and became unimportant by 9th. Nearly general rain occurred in coastal and north Mysore on 6th May and in south Mysore on 7th. Local thundershowers were also reported from Kerala from 6th to 8th. Mangalore recorded 11 cms of rain on 6th and Alleppey 10 cms on 7th.

The southwest monsoon advanced into the south Andaman Sea on 12th. There was also a brief spell of monsoon activity in the Ceylon-Camorin areas between 13th and 16th. Fairly widespread thundershowers occurred in the Bay Islands on 12th and 14th and in Kerala between 11th and 16th.

Kondul reported 12 cms and Alleppey 14 cms on 12th. Thereafter, the monsoon temporarily advanced further into the north Andaman Sea and the southeast Bay of Bengal on 14th, but receded from there by 20th. Subsequently, it remained practically confined as a weak current in the south Andaman Sea for the rest of the month.

There was pronounced thunderstorm activity in Assam during the first half of the month when it had fairly widespread thundershowers practically every day. Local or scattered thundershowers also occurred in the rest of northeast India during this period. Scattered heavy to very heavy falls were reported from Assam between 12th and 14th, Haflong recording 15 cms on 12th and 11 cms on 13th and Cherrapunji 17 cms on 14th. A few hailstorms occurred in Bihar and West Bengal between 7th and 9th. A violent hailstorm with hailstones weighing as much as half a seer in the district of Champaran (Bihar State) was reported to have caused total destruction of the standing crops on 9th.

Conditions became unsettled in the central Bay of Bengal on 16th morning and a depression formed there the same evening with its centre near Lat. 17°N. and Long. 88°E. Moving northwards, it intensified into a cyclonic storm and was centred on the 17th morning near Lat. 18.5°N. and Long. 88°E. The storm thereafter, took a northeasterly course, was centred near Lat. 20.5°N. and Long. 89.5°E, on 18th morning and crossed the east Sunderbans coast the same night. Thereafter, it weakened rapidly and lay as a shallow depression over lower Assam on 19th morning. By next day, it moved away northeastwards as a low pressure wave. Local or scattered thundershowers were reported from Assam and West Bengal from 15th to 19th, from Orissa on 15th and 17th and from Bihar State on 16th and 17th. Tura reported 8 cms of rain on 16th and Haflong 13 cms on 19th. Even after the dissipation of the storm, local thundershowers with a few heavy to very heavy falls continued in Assam during the rest of the month also. Some noteworthy amounts of rainfall were Cherrapunji (20 cms on 25th, 22 cms on 26th, and 25 cms on 27th) and Pasighat 13 cms on 25th. According to press reports, the Brahmaputra river was in spate due to these rains. A few hailstorms were also reported from Bihar State between 16th and 19th.

In association with a trough of low pressure which developed in the east Arabian Sea off the Malabar-Kanara coasts and persisted there during the last week of the month, there was a pronounced incursion of maritime air into most parts of the peninsula, and a consequent spell of wet weather. Fairly widespread or local thundershowers occurred in Kerala throughout the week. Local or scattered thundershowers were also reported from the Madras and Mysore State on most days and from Rayalaseema, Telangana, Maharashtra and the south Konkan on about 4 days of the week. Isolated hailstorms were reported from Maharashtra on 25th.

During the first half of the month, the day temperatures were generally above normal in the region extending from east Rajasthan to Bihar State and below normal in the south Peninsula. They were appreciably above normal in northeast Madhya Pradesh from 8th to 13th and in Chota Nagpur from 10th to 12th. The temperatures then rose after the 18th and remained above normal in Gangetic West Bengal, Bihar State, east Uttar Pradesh, northeast Madhya Pradesh and north Orissa for the rest of the month. Gangetic West Bengal, Bihar and the adjoining districts of east Uttar Pradesh and of Orissa were in the grip of a moderate to severe heat wave during the last week of the month. A maximum temperature of 46°C (115°F.) was recorded at Gaya and Asansol on three days. Baripada (Orissa) recorded a temperature of 47°C. (117°F.) on 25th. In east Uttar Pradesh, Gorakhpur reported the all-time record maximum temperature of 48.3°C. (119°F.) on 27th. According to press reports, several cases of death due to the heat wave occurred in these areas, particularly in Bihar.

The total rainfall during the month was in large excess in the Madras State and coastal and north Mysore, in moderate excess in Assam and south Mysore, in slight excess in Maharashtra and Kerala and normal in the Bay Islands, Sub-Himalayan West Bengal, Jammu and Kashmir, east Madhya Pradesh and the Arabian Sea Islands. It was in moderate defect in Telangana and Rayalaseema and in large defect over the rest of the country, outside Saurashtra and Kutch where there was no rain.

The mean maximum temperature was above normal in the Bay Islands, Gangetic West Bengal, Bihar State, east Uttar Pradesh, Gujarat and Saurashtra and Kutch and normal over the rest of the country outside Assam, Jammu and Kashmir, the Madras State and south Mysore where it was below normal. The mean minimum temperature was normal over the country outside the Bay Islands, Gangetic West Bengal, Orissa, Bihar State, east Madhya Pradesh, Gujarat and Vidarbha where it was above normal.

Mean relative humidity in the morning was above normal in Vidarbha, Rayalaseema, the Madras State and coastal and south Mysore and normal over the rest of the country outside Chota Nagpur, Uttar Pradesh, Rajasthan and west Madhya Pradesh where it was below normal.

The mean cloud amount in the morning was normal in Assam and Sub-Himalayan West Bengal, Chota Nagpur, west Uttar Pradesh, east Rajasthan, east Madhya Pradesh, Saurashtra and Kutch, the Konkan, coastal Andhra Pradesh and Telangana and above normal over the rest of the country outside Gangetic West Bengal, Bihar, east Uttar Pradesh the Punjab (I), west Rajasthan and Gujarat where it was below normal.

Normal data for Himachal Pradesh are absent.

Table I contains the divisional and sub-divisional means of rainfall, temperatures, humidity and cloud amount for the 14 chief political divisions and the 30 sub-divisions. The stations whose observations are used for preparing these means are given in the subsequent tables.

The highest maximum temperature given for any station in the accompanying tables is that recorded within the 24 hours ending at 0830 hrs. IST of the date noted in the succeeding column; similarly the heaviest fall in 24 hours for any station denotes the amount recorded during the 24 hours ending at 0830 hrs. IST of the date given in the succeeding column.

Poona 5,
The 18th August, 1960. }

C. RAMASWAMY,
for *Director General of Observatories.*

Errata to M.W.R. May 1958 (Vaisakha 11 -
Jaistha 10, 1880 Saka).

<u>Page</u>	<u>Station</u>	<u>Hour</u>	<u>Column</u>	<u>For</u>	<u>Read</u>
<u>Sub-Division</u>					
227	11. Himachal Pradesh		9	-4.1	4.1
<u>Table II</u>					
229	Dhanbad		10	4.	4.1
229	(Foot note)		-	(not clear)	(b) Mean of 29 days
231	Champa		20	2	1
231	Jagdalpur (P.B.O.)		14	29	25
231	Harnai		16	- .0	-2.0
233	Vellore		16	-2.2	+2.2
233	Chitaldrug		6	22.	22.8
233	Mysore		21	Blank	0
234	Mercara		7	+0.0	+0.3
235	Chainpur		9	Blank	9
<u>Table III</u>					
236	Dibrugarh	0830	6	0.1	-0.1
236	Jorhat	1130	7	24.6	26.6
237	Silchar (Kumbhigram Aerodrome)	0530	1	Silhar Kumbhigram Aerodrome)	Silchar (Kumbhigram Aerodrome)
237	Jalpaiguri	0830	1	Jaipaiguri	Jalpaiguri
237	Bagdogra	0830	5	990.9	990.8
238	Dum Dum	1730	3	"	6
238	Dum Dum	1730	11	88	68
238	Dum Dum	2330	11	68	88
239	Keonjhar	0830	4	1001.8	1004.8
239	Keonjhar	1730	4	996.8	999.8
239	Dehri	1730	5	987.3	986.3
240	Gorakhpur (P.B.O.)	1130	28	11	1
241	Bareilly (P.B.O.)	0230	7	28.9	28.8
242	Pathankot (Aerodrome)	1130	10	Blank	8.9
242	Leh	0530	4	3101.0	3101.8
242	Jammu	0830	28	Blank	0
242	Bikaner (P.B.O.)	0530	17	Blank	1
242	Jaisalmer	1730	10	43.2	34.2
243	Jaipur (Sanganer Aerodrome)	1130	17	1	11
244	Hoshangabad	0830	6	-3.0	-0.3
244	Jabalpur	2330	11	39	29
245	Baroda (Aerodrome)	0830	5	1003.9	1003.0
246	Bhavnagar (Aerodrome)	0830	27	...	0
246	Vengurla	1130	5	1007.8	1007.6
247	Parbhani	0830	4	1005.7	1005.9
247	Parbhani	0830	5	959.8	960.0
247	Parbhani	1730	4	999.3	999.5
247	Parbhani	1730	5	954.7	954.9
248	Nagpur	1730	7	41.5	41.7
248	Hakimpet	0830	23	Blank	3
248	Hakimpet	0830	24	3	9
249	Kallakurichi	0830	23	(not clear)	12
250	Madras	0830	4	1007.1	1007.0
250	Madras	0830	27	Blank	1

Page	Station	Hour	Column	For	Read
<u>Table III (contd.)</u>					
250	Honavar	0830	12	+ 3	+ 7
250	Belgaum (Sambre Aerodrome)	0530	1	Belgaum (Sampr Aerodrome)	Belgaum (Samb Aerodrome)
251	Trivandrum	0530	10	Blank	93
251	Aijal	0830	11	68	81
251	Kalimpong	1730	17	Blank	0
251	Kalimpong	1730	18	Blank	31
252	Nainital	0830	21	1	6
<u>Table III (contd.)</u>					
Page	Station	Time in IST.	Ht.in km.	Entry under column	Existing entry
256	Santacruz			Ht. of anemometer	14
258	Heading, Ht. in km. (upper portion)		4.5.	Ht.in km.	Blank
259	Baghdogra	1730	7.2,9.0	n V v D	Values for levels 7.2 & 9.0 printed slightly up
261	Bikaner	2330	6.0	v	16.9
264	Ht. in km.		3.0 to 6.0		printed slightly up
264	Imphal	1130			Values printed against 0.6, 0.9, 1.5, 2.1 & 3.0 levels be read against 0.9, 1.5, 2.1, 3.0 & 3.6 levels respectively.
264	Imphal	1730			Values printed against 0.6, 0.9, 1.5, 2.1, 3.0, 3.6, 4.5, 5.4, 6.0 & 7.2 levels be read against 0.9, 1.5, 2.1, 3.0, 3.6, 4.5, 5.4, 6.0, 7.2 & 9.0 levels respectively.
265	Heading, Ht. in km. (upper portion)				Levels from 3.0 to 9.0 printed slightly down
265	Jaipur	1730	7.2	v	3.
265	Jamshedpur	0530	3.6	v	15.7
269	Raxaul	1730	7.2	D	262
271	Heading, Et. in km. (upper & lower portions)		0.3	Ht. in km.	0.3 a.s.l.
271	Visakhapatnam	0530	Surface	D	24
272	Bamrauli	1130	10.5	V	6.0
272	Dum Dum	1130	10.5	Ht.in km.	1.5
272	Jodhpur	1730	10.5	D	26
<u>Radiosonde Data</u>					
275	Jodhpur	00 GMT	Surface	Mean	303.3
276	New Delhi	00 GMT	850 mb.	Max.	203
278	Jodhpur	12 GMT	600 mb.	No.of obs.	30

TABLE I—DIVISIONAL AND SUB-DIVISIONAL MEANS—MAY, 1958 (VAISAKHA 11-JYAISTHA 10, 1880 SAKA)

	Rainfall (millimetres)	Cloud									Rainfall (millimetres)	Cloud								
		Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity %	0830 hrs. I.S.T.	1730 hrs. I.S.T.	0830 hrs. I.S.T.	1730 hrs. I.S.T.	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity %	0830 hrs. I.S.T.	1730 hrs. I.S.T.	0830 hrs. I.S.T.	1730 hrs. I.S.T.			
1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9			
Division																				
1. Assam (Including Manipur, Tripura)	409.7	136	29.4	22.3	84	78	6.1	5.1		9. Madhya Pradesh	10.4	58	41.3	26.8	50	17	2.0	3.3		
	+109.4		-1.2	+0.1	+3		+0.8				-7.4		+0.7	+0.8	-5		+0.5			
2. West Bengal	109.8	65	37.4	26.6	69	56	3.0	3.3		10. Bombay	11.8	66	38.4	26.6	62	41	2.7	2.7		
	-58.7		+1.7	+1.5	-3		-0.9				-6.2		+0.7	+1.0	+1		+0.4			
3. Orissa	26.2	33	37.2	27.9	68	58	4.2	4.7		11. Andhra Pradesh	15.9	40	38.7	28.0	63	50	3.8	4.5		
	-54.4		+0.6	+1.3	-1		+0.7				-23.6		-0.3	+0.5	+4		+0.3			
4. Bihar	18.3	35	30.5	26.6	50	33	2.2	2.6		12. Madras State	96.8	176	34.6	26.0	75	66	5.0	5.9		
	-33.3		+2.5	+1.5	-5		-0.2				+41.9		-2.2	-0.1	+6		+1.6			
5. Uttar Pradesh	1.0	5	41.7	25.4	34	17	0.9	1.4		13. Mysore	141.6	183	34.2	23.4	75	52	5.6	6.4		
	-17.5		+1.5	+1.1	-7		-0.4				+64.1		-1.2	+0.4	+7		+2.1			
6. Punjab (India), (Including Himachal Pradesh & Delhi)*	5.9	45	40.9	24.6	31	19	0.6	1.2		14. Kerala	299.0	119	31.2	25.0	85	79	6.6	6.6		
	-7.1		+0.3	-0.6	-1		-0.6				+47.2		-0.5	-0.6	+5		+1.5			
7. Jammu and Kashmir	27.6	92	24.5	12.3	48	42	4.3	6.1		Mean of India (Excluding Jammu & Kashmir and Himachal Pradesh).										
	-2.3		-2.2	-0.7	-2		+1.6			48.6	95	38.7	26.2	52	37	2.8	3.3			
8. Rajasthan	1.2	10	41.7	26.7	29	12	0.6	1.2			-2.6	..	+0.4	+0.6	-2	..	+0.4	..		
	-10.7		+0.6	+0.2	-11															
Sub-Division																				
1. Bay Islands	382.6	100	31.8	25.3	79	84	6.7	6.5		16. Madhya Pradesh (East)	24.1	93	41.0	27.0	35	22	2.3	3.8		
	-1.7		+1.4	+1.4	+1		+1.1				-1.7		+0.8	+1.1	0		+0.2			
2. Assam (Including Manipur, Tripura)	409.7	136	29.4	22.3	84	78	6.1	5.1		17. Gujarat	0.1	1	40.5	27.2	61	25	1.5	0.6		
	+109.4		-1.2	+0.1	+3		+0.8				-9.4		+1.1	+1.3	-4		-0.4			
3. Sub-Himalayan West Bengal	254.8	91	34.3	24.3	73	57	4.1	2.4		18. Saurashtra and Kutch.	0	0	38.7	25.8	72	50	1.7	1.5		
	-26.2		+0.7	+0.9	-2		+0.5				-7.5		+1.1	+0.5	+1		-0.2			
4. Gangetic West Bengal	55.4	44	38.3	27.2	63	56	2.7	3.6		19. Konkan	12.8	46	32.8	27.3	73	70	4.1	2.5		
	-70.8		+2.0	+1.7	-3		-1.3				-14.8		+0.5	+0.9	-2		+0.3			
5. Orissa	26.2	33	37.2	27.9	68	58	4.2	4.7		20. Maharashtra	28.9	125	39.4	24.4	55	29	2.9	4.0		
	-54.4		+0.6	+1.3	-1		+0.7				+5.8		+0.5	+1.0	+3		+1.0			
6. Chota Nagpur	13.7	26	41.2	26.5	43	27	2.5	3.7		21. Vidarbha	1.1	8	42.9	29.3	41	22	3.1	4.7		
	-39.7		+2.2	+1.2	-7		+0.3				-13.5		+0.3	+1.5	+8		+1.2			
7. Bihar	20.8	41	39.9	26.6	55	37	2.0	1.6		22. Coastal Andhra Pradesh	13.9	30	37.4	28.2	69	63	4.2	4.5		
	-29.8		+2.7	+1.7	-4		-0.6				-32.8		-0.5	+0.5	+1		+0.1			
8. Uttar Pradesh (East)	0.3	1	42.3	25.9	36	17	0.6	0.9		23. Telangana	13.9	55	40.2	27.3	51	29	3.0	4.4		
	-20.2		+2.0	+0.2	-9		-0.8				-11.4		+0.2	+0.3	+5		+0.2			
9. Uttar Pradesh (West)	1.7	10	41.0	24.9	31	18	1.3	1.9		24. Rayalaseema	21.8	56	40.3	28.3	65	45	3.9	4.5		
	-14.7		+1.0	-0.1	-6		0				-17.4		-0.3	+0.5	+11		+0.8			
10. Punjab (India) (Including Delhi)	5.9	45	40.9	24.6	31	19	0.6	1.2		25. Madras State	96.8	176	34.6	26.0	75	66	5.0	5.9		
	-7.1		+0.3	-0.6	-1		-0.6				+41.9		-2.2	-0.1	+6		+1.6			
11. Himachal Pradesh	14.8	..	36.4	18.0	38	19	1.9	-4.1		26. Coastal Mysore	191.2	155	31.9	25.9	82	73	6.7	6.9		
	..		..	..	..		..				+67.9		-0.7	-0.1	+7		+1.6	
12. Jammu and Kashmir	27.6	92	24.5	12.3	48	42	4.3	6.1		27. Mysore (North)	116.5	293	37.1	23.9	68	45	5.2	6.2		
	-2.3		-2.2	-0.7	-2		+1.6				+76.8		-1.0	+0.4	+5		+2.6			
13. Rajasthan (West)	0.7	7	42.1	26.7	32	12	0.5	1.1		28. Mysore (South)	146.3	148	32.1	21.9	81	53	5.7	6.4		
	-9.1		+0.5	+0.5	-9		-0.2				+47.4		-1.5	+0.4	+8		+1.8			
14. Rajasthan (East)	1.8	13	41.3	26.8	26	12	0.7	1.3		29. Kerala	299.0	119	31.2	25.0	85	79	6.6	6.6		
	-12.2		+0.7	0	-12		-0.1				+47.2		-0.5	-0.6	+5		+1.5			
15. Madhya Pradesh (West)	0.9	7	41.6	26.7	27	13	1.8	3.0		30. Arabian Sea Island	140.9	97	32.5	26.8	79	77	6.4	7.1		
	-11.4		+0.6	+0.6	-8		+0.7				-4.5		+0.5	+0.1	+5		+1.9			

Note.—The entries in the second line for each division and sub-division indicate departures from normal.

228 TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—MAY, 1958 (VAISAKHA 11—JYAIKTHA 10, 1880 SAKA)

Division and station	Air temperature in °C								Rainfall in millimetres								No. of rainy days (2.5 mm. or more)	Wind speed, km. per hour	Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.3 mm. or more)	Snow or sleet	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall	Last squall			
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29		
Bay Islands																														
Maya Bandar	29.7	...	32.1	1	25.8	...	22.9	31	151.2	318.6	...	70.4	14	14	...	9.7	5.8	...	16	0	0	0	0	0	0	0	0	0		
Long Island	33.1	...	34.6	9	25.4	...	22.4	29	45.1	219.7	...	114.3	14	10	...	4.9	2.7	...	19	0	0	17	0	0	0	0	0	0		
Port Blair	31.8	+1.4	35.2	2	25.3	+1.4	22.8	30	238.0	382.6	-1.7	70.3	15	14	-2.3	14.3	10.2	-3.6	18	0	0	20	1	0	0	0	0	0		
Car Nicobar	31.9	...	34.0	6	24.9	...	21.9	20	184.1	378.9	...	112.0	27	13	...	7.3	4.2	...	17	0	0	0	0	0	0	0	0	0		
Nancowry	29.3	...	31.3	8	25.3	...	22.6	12	118.3	304.2	...	99.1	12	16	...	9.9	7.1	...	20	0	0	3	0	0	0	0	0	0		
Kondul	30.8	...	32.5	9	25.5	...	23.8	12	183.3	442.5	...	121.9	12	17	...	6.7	4.4	...	20	0	0	8	0	0	0	0	0	0		
Assam (Including Manipur, Tripura).																														
Pasighat	26.1	...	33.3	31	20.7	...	18.2	4	169.7	698.6	...	125.2	25	26	...	6.2	7.4	...	27	0	0	2	0	0	0	0	0	0		
Digboi	27.7	...	34.7	31	20.9	...	18.6	5	60.1	501.5	...	55.9	1	25	...	..	..	...	25	0	0	9	0	0	0	0	0	0
Dibrugarh	26.5	-2.7	33.9	31	20.8	-0.7	18.9	4 days	202.9	652.4	+345.3	85.6	25	23	+7.4	4.6	3.7	+1.8	26	0	0	5	0	0	0	0	0	0		
Dibrugarh (Mohanbari Aerodrome).	26.4	...	33.6	30,31	20.9	...	18.8	8	203.3	648.5	...	80.4	27	24	...	8.7	6.6	...	25	0	0	9	0	0	0	0	1	0		
North Lakhimpur	26.7	...	33.2	31	21.1	...	18.7	5	100.5	706.9	...	178.3	25	25	...	..	..	...	27	0	0	7	0	0	0	0	0	0
Sibsagar	28.2	-1.4	33.9	31	21.9	-0.2	18.2	5	15.8	195.7	-110.6	27.6	5	14	-1.6	7.5	7.0	+3.1	27	0	0	0	0	0	0	0	0	0		
Jorhat	28.7	...	33.9	31	21.6	...	18.1	5	97.8	434.4	...	77.2	12	18	...	..	..	...	24	0	0	8	1	0	0	0	0	0
Golaghat	28.7	...	33.9	31	...	...	...	...	27.2	307.9	...	74.4	12	14	...	..	..	...	15	0	0	0	0	0	0	0	0	0
Gohpur (R)	28.2	-2.2	32.8	31	22.1	-0.3	19.7	5,6	108.3	445.2	+174.7	39.6	16	24	+8.7	9.7	9.3	+4.8	26	0	0	15	0	0	0	0	0	0		
Tezpur	28.2	...	32.0	31	22.0	...	19.4	5	83.9	466.9	...	53.9	16	25	...	6.7	6.2	...	29	0	0	19	0	0	0	0	0	0		
Majbar	28.0	...	33.9	31	21.9	...	18.2	...	89.1	469.1	...	43.7	6	28	...	8.8	6.9	...	30	0	0	18	0	0	0	0	0	0		
Chaparmukh (R)	29.6	...	34.6	30	21.9	...	19.3	8	77.5	570.9	...	53.9	12	26	...	7.5	6.0	...	28	0	0	7	0	0	0	0	0	0		
Tangla	30.3	-0.6	35.3	26	22.8	+0.4	20.1	3,6,8	115.2	348.2	+112.2	88.4	12	20	+6.5	4.7	3.9	+0.8	22	0	0	3	0	0	0	0	0	0		
Gauhati	30.2	...	34.6	26	22.4	...	18.4	3	92.4	343.7	...	96.8	12	16	...	7.6	6.6	...	24	0	0	21	0	0	0	0	3	0		
Gauhati (Bhorjor Aerodrome).	30.8	...	34.7	27	...	...	...	...	111.2	542.1	...	60.5	13	24	...	..	..	...	24	0	0	0	0	0	0	0	0	0
Goalpara	30.4	...	35.4	26	21.3	...	17.4	8	85.1	599.3	...	140.7	12	22	...	6.3	5.4	...	24	0	0	0	0	0	0	0	0	0		
Dhubri	29.5	-0.4	34.9	26	23.1	+0.3	19.9	6	37.3	302.2	-98.9	56.1	31	14	-1.5	7.8	7.6	-1.6	14	0	0	0	0	0	0	0	0	0		
Dhubri (Rupsi Aerodrome).	31.1	...	35.1	26	22.2	...	17.1	12	36.5	442.5	...	75.9	31	20	...	7.5	5.9	...	22	0	2	22	0	0	0	0	0	0		
Tura	31.0	...	35.0	27	23.6	...	19.1	6	29.7	339.7	...	40.1	6	14	...	11.2	12.5	...	18	0	0	0	0	0	0	0	0	0		
Agartala	33.0	...	35.6	4	24.7	...	18.7	2	75.8	363.1	...	75.9	9	8	...	16.0	12.8	...	17	0	0	13	0	0	0	0	4	0		
Silchar	30.5	-1.0	34.8	28	23.1	+0.5	18.9	5	181.2	744.2	+327.1	244.3	10	15	-1.4	1.2	0.8	-2.4	19	0	0	15	1	0	0	0	1	0		
Silchar (Kumbhigram Aerodrome).	30.9	...	34.6	17,18	22.1	...	17.9	5	238.7	780.1	...	144.6	10	20	...	8.4	8.1	...	26	0	1	18	0	0	0	1	8	0		
Imphal	28.2	...	32.7	3	19.1	...	15.6	5	88.7	372.1	...	83.5	10	15	...	11.2	7.5	...	19	0	0	12	0	0	0	0	0	0		
Hailong	27.1	...	30.2	30	18.3	...	14.9	10	336.9	999.2	...	248.2	10	20	...	17.4	15.7	...	21	0	0	14	0	0	0	0	0	0		
Lumding	32.3	+0.2	37.3	3	22.4	+0.5	19.4	5	61.2	180.1	+15.8	30.0	10	13	+2.3	6.7	5.0	...	16	0	0	5	0	0	0	0	0	0		
Sub Himalayan—West Bengal																														
Cooch Behar(C.W.O.)	30.9	...	34.7	26	22.4	...	18.4	6	27.2	430.3	+4.3	108.2	23	17	+1.5	9.9	8.1	...	19	0	1	26	0	0	0	0	2	2		
Jalpaiguri	30.2	-1.7	32.8	2	23.0	+0.4	19.1	6	25.9	268.5	-31.7	48.3	18	14	+0.9	13.5	10.4	+6.4	18	0	0	19	0	0	0	0	0	0		
Bagdogra	31.7	...	36.1	29	22.7	...	16.9	8	8.6	143.6	...	46.8	16	10	...	17.7	14.3	...	13	0	0	14	0	0	0	0	0	0		
Malda	38.3	+3.1	45.0	27	25.5	+1.4	18.6	8	21.1	65.6	-51.2	24.1	8	4	-1.6	11.3	9.9	+0.9	4	0	0	8	0	0	0	0	0	0		
Gangetic West Bengal																														
Dum Dum	36.1	...	42.9	28	26.6	...	22.6	12	3.4	52.9	...	18.4	7	5	...	17.2	13.9	...	7	0	0	8	0	0	0	0	0	0		
Calcutta	36.3	+1.0	43.7	28	27.2	+1.9	23.2	7	9.9	59.6	-79.9	15.5	4	5	-1.9	17.5	10.7	+2.7	8	0	1	6	0	0	0	6	0	0		
Parrackpore	36.4	...	42.9	28	26.9	...	22.8	6,7	0	69.6	...	18.3	4	5	...	..	..	...</td										

TABLE II.—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—MAY 1958 (VAISAKHA 11-JYAISTHA 10, 1880 SAKA) 229

Division and station	Air temperature in °C										Rainfall in millimetres					No. of rainy days (2.5 min. or more)			Wind speed, km. per hour		Weather phenomena—No. of days with									
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Small	Line squall					
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
Orissa—contd.																														
Bhubaneswar . .	39.3	..	44.9	28	28.2	..	25.0	4	1.7	1.7	...	1.7	4	0	...	30.8	28.2	...	1	0	0	4	0	1	0	0	1	0	0	
Puri . . .	32.3	+0.3	38.3	30	28.5	+1.2	25.6	4	0	1.6	-71.0	1.3	17	0	-3.2	27.0	25.1	+3.7	2	0	0	1	0	0	0	0	0	0	0	
Gopalpur . . .	33.1	+0.7	35.9	29	27.3	+0.6	23.8	4	0.3	9.4	-44.7	9.4	4	1	-2.1	...	...	...	1	0	0	3	1	0	0	0	1	0
Koraput . . .	33.7	..	36.7	24,25	22.6	..	20.0	4,18	45.0	89.6	...	26.9	30	6	...	...	...	...	7	0	0	0	0	0	0	0	0	0
Titilagarh . . .	37.8	..	42.5	21	27.5	(1)	23.1	1	10.2	48.0	...	33.5	2	3	...	6.3	5.1	...	3	0	0	10	0	2	0	0	0	0		
Bolangir . . .	41.0	..	44.1	25	29.2	..	..	..	18.8	39.6	..	19.6	2	4	..	12.8	11.1	..	5	0	0	9	0	0	0	0	0	0
Angul . . .	40.5	+0.8	44.7	26	28.1	+2.0	24.2	7	15.8	20.5	-39.2	13.8	12	2	-2.7	12.2	9.9	+0.9	4	0	0	9	0	0	0	0	0	0		
Koosjhar . . .	38.8	..	42.2	25,26	26.0	..	21.7	2	34.7	76.9	35.8	2	3	2	-0.3	12.2	9.4	+1.0	4	0	0	4	0	0	0	0	0	0		
Sambalpur . . .	41.4	0	44.3	25	28.7	+1.4	26.0	3	0	13.0	-14.4	8.1	17	2	-0.3	8.2	6.3	..	4	0	0	0	0	0	0	0	0	0		
Jharsuguda . . .	41.9	..	45.2	25,26	28.0	..	22.9	2	0.5	9.5	..	8.7	2	1	..	12.7	9.3	..	2	0	0	9	0	0	0	0	2	0		
Chota Nagpur																														
Jamshedpur . . .	41.2	+1.8	44.5	26,27	28.3	+2.1	25.7	7	0	0	-79.5	0	..	0	-5.1	11.7	8.5	+1.7	0	0	0	2	0	2	0	0	0	0		
Jamshedpur (P.B.O.)	42.1	..	45.9	26	28.4	..	25.5	7	0.3	0.3	..	0.3	7	0	..	5.3	3.2	..	1	0	0	6	0	1	0	0	0	0		
Chaibasa . . .	41.9	+1.9	45.0	26	28.3	+2.1	24.3	5	29.0	33.3	-36.3	29.0	16	2	-3.2	6.9	5.1	+0.9	2	0	0	2	0	0	0	0	0	0		
Ranchi . . .	39.7	+2.7	41.8	23	24.2	+0.1	15.9	11	4.1	4.1	-49.8	4.1	4	1	-3.1	9.5	6.8	-1.1	1	0	0	0	0	0	0	0	0	0		
Ranchi (C.W.O.)	39.0	..	41.8	27	25.0	..	22.2	1,6	4.8	4.8	..	2.5	4	1	..	..	..	..	3	0	0	8	0	0	0	0	0	0
Daltonganj . . .	42.9	+1.7	45.3	11	25.8	-0.1	20.7	14	0	0	-14.5	0	..	0	-1.3	10.5	5.8	-1.3	0	0	0	0	0	0	0	0	0	0		
Hazaribagh . . .	40.1	+2.7	42.6	11	25.8	+1.6	22.9	17,18	30.2	31.2	-18.6	25.4	17	2	-1.4	14.0	10.7	-0.7	2	0	0	0	3	0	0	0	0	0		
Dhanbad . . .	41.4	..	44.8	24,27	27.7	..	23.2	7	4.	4.1	..	4.1	12	1	..	12.0	9.4	..	1	0	0	5	0	5	0	0	0	0		
Bihar																														
Purnea . . .	36.2	+1.3	41.9	26	24.6	+1.0	18.4	8	0	68.3	-37.9	56.6	8	3	-2.5	9.7	7.5	+2.0	3	0	0	4	0	0	0	0	0	0		
Forbesganj . . .	36.9	..	42.9	26	24.6	..	20.6	6	0	39.9	..	25.4	6	3	..	13.0	10.9	..	3	0	0	3	0	0	0	0	1	0		
Darbhanga . . .	38.1	+2.4	43.8	27	25.5	+1.3	20.0	8	0	19.3	-44.4	19.3	8	1	-2.5	11.0	8.9	+1.8	1	0	0	0	0	0	0	0	0	0		
Motihari (R) . . .																														
Muzaffarpur . . .																														
Chapra . . .																														
Arrah . . .																														
Patna . . .	40.8	+2.9	44.7	27	27.4	+1.8	23.8	7,9	0	0	-35.6	0	..	0	-2.3	11.6	10.2	+2.0	0	0	0	2	0	0	0	0	0	0		
Patna (Aerodrome)	41.4	..	45.4	27	26.7	..	23.0	14	0.5	0.5	..	0.5	3	0	..	12.7	8.9	..	1	0	0	1	0	0	0	0	0	0		
Dehri . . .	42.9	..	45.0	5 days	27.9	..	22.3	4	0	3.1	-12.9	3.1	17	1	-0.2	11.1	8.0	..	1	0	0	0	0	1	0	0	0	0		
Gaya . . .	43.3	+3.0	46.1	27	27.9	+1.3	23.9	14	0	0	-23.6	0	..	0	-1.7	12.5	9.6	-0.1	0	0	0	0	0	0	0	0	0	0		
Jamui . . .	42.0	..	43.8	27	27.8	..	20.2	14	0	0	..	0	..	0	..	12.2	8.8	..	0	0	0	0	0	0	0	0	0	0		
Dumka . . .	40.9	+3.7	45.1	24	28.6	+3.4	21.6	8,9	39.1	84.8	-6.9	34.8	9	5	-0.1	13.7	9.0	+4.2	5	0	0	6	0	2	0	0	0	0		
Bhagalpur . . .	39.1	..	44.0	27	26.1	..	21.7	8	0	1.8	..	1.2	8	0	..	12.9	10.1	..	2	0	0	7	0	0	0	0	0	0		
Sabour . . .	39.9	+3.1	45.1	27	25.7	+1.4	22.2	8	0	10.4	-44.2	8.9	16	1	-2.6	13.0	12.0	-0.9	3	0	0	6	0	0	0	0	3	0		
Uttar Pradesh (East)																														
Gonda . . .	42.4	+3.1	49.9	8	23.9	-1.5	18.6	13	0	0	-26.2	0	..	0	-1.9	8.0	6.3	-1.9	0	0	0	0	0	0	0	0	0	0		
Nautanwa . . .	39.4	..	44.8	27	24.8	..	18.8	8	0	49.5	..	30.5	12	2	..	11.8	8.2	..	2	0	0	0	1	0	0	0	0	0		
Gorakhpur . . .	41.3	+2.9	48.3	26	25.4	+0.5	20.3	13	0	0	-35.1	0	..	0	-2.5	10.4	7.7	+3.0	0	0	0	0	0	0	0	0	0	0		
Azamgarh . . .	42.4	..	45.1	24	26.3	..	21.6	13	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0
Ballia . . .	42.0	..	45.7	28	25.8	..	21.3	14	0	0	..	0	..	0	..	10.7	7.7	..	0	0	0	0	0	0	0	0	0	0		
Varanasi (Banaras)	42.9	+2.1	45.5	15	27.4	+1.2	21.7	14	0	0	-13.5	0	..	0	-1.1	12.7	9.9	+3.6	0	0	0	0	0	0	0	0	0	0		
Varanasi (Banaras) (Babatpur Aerodrome)	42.7	..	45.3	24	26.9	..	20.6	13	0	0	..	0	..	0	..	13.0	12.5	..	0	0	0	1	0	0	2	0	0	0		
Allahabad (Bamrauli)	43.6	+1.9	46.3	11</td																										

230 TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—MAY, 1958 (VAISAKHA 11—JYAISTHA 10, 1880 SAKA)

Division and station	Air temperature in °C								Rainfall in millimetres						No. of rainy days (2.5 mm. or more)		Wind speed, km. per hour		Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.3 mm. or more)	Snow or Sheet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Light squall	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
Uttar Pradesh (West)—contd.																													
Najibabad . . .	39.9	...	42.6	23	22.3	...	17.0	13	0	0	...	0	...	0	...	4.8	3.0	...	0	0	0	3	0	0	0	0	0	0	0
Roorkee . . .	40.1	+1.1	42.3	23	23.7	+0.4	18.6	13	1.8	12.8	-6.5	10.9	31	1	-0.7	10.5	7.2	+2.1	3	0	0	5	0	1	0	0	0	0	
Dehra Dun . . .	36.1	+0.5	38.6	10,26	20.9	-0.3	17.1	13	0	0.5	-36.3	0.5	31	0	-0.3	7.3	4.8	+1.1	1	0	0	5	0	3	0	0	0	0	
Punjab (India), (including Delhi)																													
New Delhi . . .	40.2	-1.0	43.8	11	25.8	-0.9	21.8	12	7.6	8.0	-5.2	4.2	30	2	+0.4	16.2	14.0	+0.3	2	0	1	4	0	7	0	0	8	0	
Hissar . . .	42.1	+1.4	44.7	7	24.3	-0.1	19.3	12	8.1	8.1	-5.6	5.8	31	1	-0.4	9.3	8.3	+0.3	2	0	1	2	0	7	0	0	0	0	
Karnal . . .	40.0	...	43.1	11	23.0	...	19.6	31	0	12.4	...	12.4	31	1	...	...	...	...	1	3	0	3	0	4	0	0	0	0
Patiala . . .	40.0	...	42.6	30	23.6	...	19.4	11	0	0	-6.3	0	...	0	-0.8	10.5	9.0	...	0	0	0	1	0	4	0	0	0	0	
Ambala (Ambala Aerodrome) . . .	40.5	+0.6	43.3	23	23.6	-0.7	19.8	31	7.4	7.4	-11.1	7.4	31	1	-0.5	7.9	7.8	+1.8	1	0	0	0	0	2	0	0	0	0	
Chandigarh . . .	39.3	...	41.7	23	25.0	...	21.2	19	2.3	13.0	...	10.7	31	1	...	...	...	...	2	0	0	0	0	1	0	0	0	0
Ludhiana . . .	41.1	+1.2	43.9	7	23.2	-1.0	17.7	12,13	0	0	-18.5	0	...	0	-1.5	3.1	1.7	-4.3	0	0	0	0	0	0	0	0	0	0	
Ferozepur . . .	39.4	...	43.8	6	21.6	...	14.7	13	0	0	...	0	...	0	...	6.5	5.4	...	0	0	0	0	0	3	0	0	0	0	
Amritsar . . .	38.7	...	41.2	8	21.1	...	15.7	13	0	2.0	...	2.0	23	0	...	14.2	11.2	...	1	0	0	3	0	2	0	0	0	0	
Pathankot . . .	37.8	...	39.7	23	22.3	...	16.8	12,13	0	8.8	...	3.1	28	2	...	8.2	6.9	...	5	0	0	4	0	3	0	0	0	0	
Pathankot (Aero-drome) . . .	39.0	...	41.1	17,26	23.6	...	16.4	12	0	2.0	...	2.0	28	0	...	15.9	14.8	...	1	0	0	11	0	3	0	0	0	0	
Himachal Pradesh																													
Bilaspur . . .	37.5	...	40.4	23	19.1	...	13.5	12	0.6	9.8	...	5.0	28	2	...	9.3	7.2	...	3	0	0	8	0	1	0	0	1	0	
Mandi . . .	35.3	...	39.2	23	16.9	...	13.6	13	15.1	19.8	...	6.8	31	4	...	5.9	4.7	...	6	0	0	9	0	0	0	0	0	0	
Jammu and Kashmir																													
Srinagar . . .	21.8	-3.2	25.6	9	10.5	0	7.4	11,12	35.3	61.4	+0.9	25.1	15	6	+0.6	7.5	6.2	+1.7	12	0	2	14	0	1	0	0	0	0	
Gulmarg																													
Sonamarg* . . .																													
Dras																													
Kargil (R) . . .																													
Leh . . .	13.3	-4.3	17.1	23	1.6	-1.2	-2.1	11	2.8	19.8	+14.2	6.3	16	3	+2.3	6.8	6.4	+1.9	6	4	0	0	0	0	0	0	0	0	
Skardu (R)																													
Gurez . . .																													
Gilgit (R)																													
Misgar (R)																													
Jammu . . .	38.5	+0.8	40.9	10	24.9	-0.8	21.6	12	...	1.6	-22.0	1.0	29	0	-2.2	...	...	...	3	0	0	1	0	1	0	0	0	0
Gund . . .																													
Pandras																													
Panamik																													
Khangral																													
Digar . . .																													
Khalatse . . .																													
Mulbik (R) . . .																													
Rajasthan (West)																													
Sri Ganganagar . . .	40.6	-1.5	43.5	5	24.4	+0.5	20.2	12	0	0	-5.8	0	...	0	-0.8	5.0	4.6	-6.2	0	0	0	1	0	4	0	0	0	0	
Churu . . .	41.2	...	44.4	8	25.0	...	18.7	12	0.3	5.9	...	5.1	29	1	...	14.7	10.6	...	3	0	0	6	0	8	0	0	0	0	
Bikaner . . .	41.5	-0.6	44.3	3	26.1	-1.5	21.2	17	0	0	-15.0	0	...	0	-1.3	10.9	9.0	-1.1	0	0	0	2	0	3	0	0	0	0	
Jaisalmer . . .	42.6	...	45.6	10,14	26.3	—	19.6	12	0	0	...	0	...	0	..	18.3	16.3	...	0	0	0	0	0	0	0	0	0	0	
Phalodi . . .	41.1	...	45.0	10	26.5	—	22.9	3	0	0	-8.9	0	...	0	-0.8	20.6	16.6	...	0	0	0	5	0	2	0	0	0	0	
Jodhpur . . .	43.0	+2.2	46.3	10	27.5	+1.2	23.6	15	0	3.3	-7.1	3.3	27	1	-0.1	16.9	13.0	-4.2	1	0	0	4	0	4	0	1	0	0	
Barmer . . .	43.4	+2.1	47.7	10	28.6	+1.9	24.7	15	0	0	-8.9	0	...	0	-0.7	14.3	14.1	+3.0	0	0	0	0	0	0	0	0	0	0	
Rajasthan (East)																													
Alwar . . .	41.7	...	44.8	11	25.9	...	19.3	12	7.9	7.9	...	7.9	30	1	...	10.0	6.7	...	1	0	0	2	0	1	0	0	0	0	
Sikar . . .	40.3	...	43.1	7	23.8	...	18.9	12	0	13.6	...	13.5	28	1	...	10.9	7.2	...	1	0	0	0	0	0	0	0	0	0	
Jaipur . . .	41.0	+0.1	44.3	7	25.2	+0.3	22.2	17	6.1	6.1	-8.4	6.1	29	1	-0.6	12.8	8.2	-0.5	1	0	0	6	0	1	0	0	0	0	
Jaipur (Sanganer Aerodrome). . .	40.7	...	43.6	7	25.																								

TABLE II.—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—MAY, 1958 (VAISAKHA 11—JYAISTHA 10, 1880 SAKA) 231

Division and station	Air temperature in °C									Rainfall in millimetres					No. of rainy days (2.5 mm. or more)	Wind speed, km. per hour	Weather phenomena—No. of days with														
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0-3 mm. or more)	Snow or sleet	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29		
Madhya Pradesh (West).																															
Gwalior (P. B. O.)	43.0	-0.1	46.4	11	26.6	-2.0	20.6	13	0.7	1.1	-5.8	0.8	30	0	-0.9	13.1	7.8	...	2	0	0	3	2	3	0	0	0	0			
Sheopur Kalan	42.7	...	47.7	25	26.9	...	22.2	13	0	0	...	0	...	0	...	13.1	9.7	...	0	0	0	2	0	0	0	0	0	0	0		
Guna	41.3	0	44.7	11	25.5	+0.2	21.1	4	0	0	-13.7	0	...	0	...	-1.2	17.4	10.2	...	0	0	0	2	0	0	0	0	1	0		
Rajgarh	43.0	...	46.6	11	28.1	...	22.9	18	0	0	...	0	...	0	...	16.6	13.1	...	0	0	0	0	0	0	0	0	0	0	0		
Neemuch	40.7	+1.0	43.4	8, 11, 14	27.0	+1.8	23.8	1	0	0	-15.0	0	...	0	...	-1.2	14.3	12.0	-1.4	0	0	0	0	0	0	0	0	0	0		
Ratlam	40.4	...	42.9	8	26.6	...	23.8	3	0	0	...	0	...	0	...	12.7	9.9	...	0	0	0	0	0	0	0	0	0	0	0		
Alirajpur	40.4	...	43.3	25	26.7	...	23.7	20	0	0	...	0	...	0	...	15.3	12.6	...	0	0	0	0	0	0	0	0	0	0	0		
Indore	40.3	+0.2	43.2	10	25.3	+1.1	21.3	4	0.8	0.8	-12.1	0.8	6	0	-1.3	20.0	19.4	...	1	0	0	3	0	0	0	0	0	0	0		
Shopal (Bairagarh)	40.9	+0.5	43.6	8, 9	26.3	+0.2	23.8	28	0	0	-14.5	0	...	0	...	-1.2	17.3	13.9	+0.2	0	0	0	2	0	0	0	0	0	0		
Khandwa	42.5	+0.9	45.3	26, 27	28.4	+1.1	21.9	6	0	3.0	-4.9	3.0	1	1	+0.3	15.5	12.6	-0.3	1	0	0	2	0	0	0	0	0	0	0		
Hoshangabad	42.6	+1.0	45.8	10	28.3	+1.1	24.4	18	0	0.4	-12.1	0.4	1	0	-1.2	3.7	2.4	-2.7	1	0	0	0	0	0	0	0	0	0	0		
Betul	39.5	...	42.7	14	24.8	...	21.1	1	7.6	15.6	...	8.0	1	2	...	10.1	6.1	...	2	0	0	1	0	0	0	0	0	0	0		
Chhindwara	40.1	...	43.8	11	26.2	...	21.1	8	0	1.4	...	1.4	1	0	...	6.0	4.0	...	1	0	0	1	0	0	0	0	0	0	0		
Seoni	40.5	+0.7	43.8	11	26.6	+2.0	24.4	19	0.6	3.4	-15.9	1.0	27	0	-1.7	7.7	5.9	-0.2	5	0	0	1	0	0	0	0	0	0	0		
Sagai	40.9	+0.5	43.9	11	27.4	+1.4	24.9	18	0	0	-10.7	0	...	0	-1.1	12.3	9.1	...	0	0	0	0	0	0	0	0	0	0	0		
Nowrang	43.2	+1.3	46.7	11	25.4	-0.9	18.4	13	0	0	-9.4	0	...	0	-1.0	10.3	5.8	+1.3	0	0	0	0	0	0	0	0	0	0	0		
Madhya Pradesh (East)																															
Sunna	42.9	+1.9	45.7	11	27.7	+1.1	22.6	13	0	0	-11.9	0	...	0	-1.3	13.0	6.6	-0.6	0	0	0	1	0	0	0	0	0	0	0		
Umaria	42.3	+1.5	44.8	15	27.3	+1.2	22.2	13	0	0	-10.9	0	...	0	-0.7	9.0	5.5	-0.1	0	0	0	0	1	0	0	0	0	0	0		
Jabalpur	42.5	+1.7	45.5	11	26.4	+1.2	21.7	13	0	4.0	-11.7	4.0	27	1	-0.4	9.1	5.6	+0.8	1	0	0	0	0	0	0	0	0	0	0		
Mandla	41.5	...	44.2	11	24.4	...	19.8	28	0	6.8	...	6.8	15	1	...	7.3	4.0	...	1	0	0	1	0	2	0	0	0	0	0		
Pendra	39.4	+1.5	42.6	11	25.8	+0.6	20.1	15	34.8	48.8	+27.5	21.2	2	4	+1.9	12.0	9.3	...	6	0	0	6	0	0	0	0	0	0	0		
Ambikapur	39.9	...	42.6	12	24.7	...	21.7	14	2.8	2.8	...	2.8	2	1	...	13.5	9.4	...	1	0	0	3	0	0	0	0	0	0	0		
Champa	42.5	...	45.4	26	28.9	...	22.6	3	0	18.2	...	18.2	3	1	...	10.3	6.5	...	2	0	0	6	0	3	0	0	0	0	0		
Raigach	42.3	...	45.3	25	29.0	...	23.9	3	0	7.9	...	6.1	3	1	...	8.1	6.7	...	3	0	0	0	0	0	0	0	0	0	0		
Raipur	41.9	+0.1	44.4	11	29.6	+1.8	25.9	19	0.3	0.3	-22.3	0.3	14	0	-2.1	12.0	11.6	+0.2	1	0	0	2	0	0	0	0	0	0	0		
Kauker	40.2	0	42.8	11	27.9	+1.6	22.8	25	8.1	10.1	-27.8	6.0	15	1	-1.7	11.4	9.0	+1.8	3	0	0	5	0	0	0	0	0	1	0		
Jagdalpur (P.B.O.)	37.5	-0.8	40.6	31	24.3	+0.1	20.8	13	53.2	105.0	+45.1	34.4	29	8	+3.2	8.2	5.6	...	11	0	1	16	0	2	0	0	3	2			
Gujarat																															
Deesa	42.4	...	45.2	10	25.7	...	22.5	8	0	0	...	0	...	0	...	12.3	9.8	...	0	0	0	0	1	0	0	0	0	0	0		
Idar	41.6	...	44.3	10	24.2	...	21.8	14	0	0	...	0	...	0	...	12.2	9.0	...	0	0	0	0	0	0	0	0	0	0	0		
Ahmedabad	42.6	+1.0	45.2	10, 24, 25	26.8	+0.9	22.8	29	0	0	-16.8	0	...	0	...	-0.7	10.9	9.5	0	0	0	0	0	1	0	0	0	1	0		
Dohad	40.6	+1.2	42.8	10, 24, 25	26.8	+0.9	22.8	29	0	0	-16.8	0	...	0	...	-0.5	23.1	24.1	+10.4	0	0	0	0	0	1	0	0	0	0		
Baroda	41.9	+1.6	44.9	25	27.5	+2.1	25.1	3	0	0.3	-4.8	0.3	1	0	-0.5	7.5	5.8	-3.5	1	0	0	0	0	0	0	0	0	0	0		
Baroda (Aerodrome)	41.4	...	44.0	24	27.7	...	25.5	3	0	0	...	0	...	0	...	0	...	10.9	11.6	...	0	0	0	0	0	0	0	0	0	0	0
Broach	40.0	...	45.6	25	27.8	...	25.6	3	0	0	...	0	...	0	...	0	...	12.5	11.3	...	0	0	0	0	0	0	0	0	0	0	0
Surat	36.8	+0.5	42.4	25	27.4	+1.3	24.5	3	0	0	-6.1	0	...	0	...	-0.3	14.1	12.6	+2.0	0	0	0	0	0	0	0	0	0	0	0	
Saurashtra and Kutch																															
Naliya	35.5	...	38.9	12	24.9	...	20.9	7	0	0	...	0	...	0	...	23.8	17.2	...	0	0	0	0	0	0	0	0	0	0	0	0	
Bhuj (P. B. O.)	40.3	+2.0	44.9	13	25.6	+0.7	22.6	7	0	0	-6.6	0	...	0	...	-0.3	17.0	14.6	-2.9	0	0	0	1	0	0	0	0	0	0		
Bhuj (Aerodrome)	40.8	...	45.0	13	25.5	...	22.3	6	0	0	...	0	...	0	...	0	...	18.7	16.9	...	0	0	0	1	0	0	0	0	0	0	
Kandla	36.5	...	40.6	22	26.2	...	23.8	1	0	0	...	0	...	0	...	0	...	33.3	28.4	...	0	0	0	0	0	0	0	0	4</td		

232 TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—MAY, 1958 (VAISAKHA 11—JYAI STA 10, 1880 SAKA)

Division and station	Air temperature in °C								Rainfall in millimetres						No. of rainy days (2·5 mm or more)		Wind speed, km. per hour		Weather phenomena—No. of days with									
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0-3 mm. or more)	Snow or sleet	Hail	Thunderhead	Fog	Dust-storm	Ground frost	Gale	Squall	Line serial
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
Konkan—(Contd.)																												
Ratnagiri . . .	32·8	...	34·4	24	27·2	...	23·1	2	0	20·2	-7·7	11·8	27	3	+1·6	...	...	...	3	0	0	3	0	0	0	2	0	0
Devgad . . .	33·2	+0·3	34·6	15,16	27·7	+0·4	22·5	1	0·8	37·4	-35·5	24·6	25	3	-0·4	21·1	17·5	+0·1	5	0	0	2	0	0	0	0	0	0
Vengurla . . .	33·4	...	35·2	23	26·3	...	22·2	25	1·2	51·8	...	26·8	30	3	...	14·9	9·4	...	6	0	0	11	0	0	0	0	0	0
Maharashtra Nandurbar . . .	41·2	...	44·6	25	26·3	...	22·9	20	0	0·3	...	0·3	2	0	...	13·6	12·4	...	1	0	0	0	0	0	0	0	0	0
Jalgaon . . .	43·2	...	46·1	10,26	27·9	...	24·3	27	3·5	16·4	+6·0	10·4	26	3	+2·1	22·2	21·8	...	3	0	0	0	0	0	0	0	0	0
Malegaon . . .	41·4	+0·8	44·0	18	24·7	+0·8	21·2	20	0	4·4	-14·1	4·4	26	1	-0·2	14·6	11·8	-2·2	1	0	0	2	0	1	0	0	0	0
Deolali . . .	37·9	...	41·9	25	22·8	...	20·4	26	0	42·2	...	40·4	26	1	...	15·5	14·0	...	2	0	0	2	0	0	0	0	0	0
Aurangabad . . .	40·5	+0·8	43·3	11	25·8	+1·5	22·2	1,2	0	4·2	-14·1	2·2	28	0	-1·3	14·8	14·5	-1·4	2	0	0	2	0	0	0	0	0	0
Aurangabad (Chikalthana Aerodrome) . . .	39·8	...	42·6	10,11,14	25·0	..	20·7	4	8·0	20·3	...	12·3	1	2	...	16·8	14·5	...	2	0	0	2	0	0	0	0	0	0
Khandala . . .	...	...	...	...	...	...	...	...	...	24·1	+4·0	12·1	2	2	+0·7	...	...	...	1	0	0	0	0	0	0	0	0	0
Ahmednagar . . .	39·6	+0·8	42·2	10,13	23·6	+1·3	20·7	4	0	20·1	-3·0	20·1	1	1	-0·6	11·8	9·1	-3·5	1	0	0	0	0	0	0	0	0	0
Parbhani . . .	42·1	...	45·3	14	27·6	...	21·8	2	15·0	16·5	-2·8	15·0	2	1	-0·4	13·7	11·2	...	3	0	0	3	0	0	0	0	0	0
Poona . . .	37·8	+0·7	41·6	25	23·4	+1·0	20·4	1	38·8	91·0	+64·1	41·9	1	4	+2·3	6·5	5·2	-9·4	5	0	1	5	0	0	0	0	2	0
Poona (Lohagaon Aerodrome) . . .	37·5	...	40·6	23,25	22·5	...	20·6	2	42·2	60·0	...	42·2	27	3	...	...	...	...	3	0	0	3	0	0	0	0	0	0
Baramati . . .	40·0	...	42·8	13	24·2	...	21·9	4	0	10·9	...	8·5	1	1	...	14·0	13·9	...	2	0	0	1	0	0	0	0	0	0
Jeur . . .	40·2	...	43·6	11	25·0	..	21·2	2	1·7	30·3	...	25·0	27	2	...	11·9	13·5	...	3	0	0	0	0	0	0	0	0	0
Sholapur . . .	40·1	-0·3	43·3	4 days	25·8	+0·8	21·7	14	3·1	38·3	+15·7	23·2	14	3	+1·1	12·4	10·7	-2·5	7	0	0	4	0	0	0	0	0	0
Miraj . . .	37·2	-0·1	41·1	10	23·1	+0·6	21·1	2	4·5	44·8	-3·2	17·6	15	4	+1·1	13·0	13·1	+0·1	6	0	0	7	0	0	0	0	0	0
Kolhapur . . .	35·9	+0·3	40·3	22	22·8	+0·5	20·7	25	14·9	42·4	-35·8	23·8	25	4	-0·5	15·2	14·3	-2·6	7	0	0	13	0	1	0	0	0	0
Vidarbha																												
Buldhana . . .	38·4	...	41·7	25	27·2	...	21·6	1	0	6·0	...	6·0	1	1	...	13·5	12·7	...	1	0	0	0	0	0	0	0	0	0
Akola . . .	42·8	+0·5	45·6	14	29·5	+2·1	25·6	4	0	0	-10·4	0	...	0	-1·0	12·0	10·1	-1·6	0	0	0	0	0	0	0	0	0	0
Amravati . . .	42·6	+0·6	45·6	11	28·9	+1·8	23·1	1	0	3·8	-9·4	2·2	1	0	-1·3	12·6	9·1	-0·2	2	0	0	0	1	0	0	0	0	0
Yeotmal . . .	42·1	...	45·3	14	28·7	...	21·3	1	0	11·6	...	11·6	1	1	...	13·5	13·5	...	1	0	0	2	0	0	0	0	0	0
Nagpur . . .	43·3	0	46·2	11	28·9	+0·2	24·8	1	0	0·8	-18·5	0·8	1	0	-2·0	14·1	11·9	...	1	0	0	3	0	0	0	0	0	0
Gondia . . .	41·9	...	44·6	10	29·6	...	23·5	1	0	1·1	...	1·1	1	0	...	7·1	5·5	...	1	0	0	2	0	0	0	0	0	0
Brahmapuri . . .	42·3	...	45·2	10,11	28·6	...	22·2	1	0	22·6	...	16·0	1	2	...	10·1	8·2	...	4	0	0	3	0	0	0	0	0	0
Chanda . . .	43·1	+0·1	46·3	11	29·8	+2·0	25·4	19	0	0	-15·5	0	...	0	-1·4	19·6	7·3	+0·9	0	0	0	7	0	0	0	0	0	0
Sironcha . . .	41·7	...	44·4	31	30·1	...	27·7	3	1·4	3·4	...	2·0	3	0	...	8·5	7·5	...	2	0	0	4	0	0	0	0	0	0
Coastal Andhra Pradesh																												
Nellore . . .	38·9	-1·2	42·6	19	28·1	+0·4	25·4	17	1·0	1·0	-26·7	1·0	30	0	-1·4	(d) 11·4	(d) 10·1	+1·1	1	0	0	2	0	0	0	0	0	0
Ongole . . .	35·5	...	41·8	27	28·2	...	26·7	8	0	19·6	...	19·6	17	1	...	12·1	8·7	...	1	0	0	3	0	0	0	0	0	0
Rentachintala . . .	41·0	-0·6	43·1	26	28·1	-0·9	22·3	17	15·7	54·4	-9·6	50·0	17	2	-0·8	4·9	6·8	-5·9	3	0	0	2	0	0	0	0	0	0
Gannavaram . . .	39·6	...	43·1	28	27·7	...	24·3	17	8·2	24·2	...	11·9	29	3	...	14·6	13·6	...	4	0	0	9	0	0	0	0	0	0
Masulipatam . . .	36·3	-1·2	42·4	28	28·1	+0·5	24·9	17	0	0·2	-33·3	0·2	17	0	-2·0	13·7	13·1	+2·5	6	0	0	2	0	0	0	0	0	0
Nidadavolu . . .	38·9	...	43·9	28	27·2	...	24·6	5	4·4	18·5	...	11·0	19	2	...	9·5	7·2	...	5	0	0	7	0	0	0	0	0	0
Kakinada . . .	37·0	-0·3	43·3	28	28·3	+0·7	24·3	17	14·5	14·5	-24·6	14·5	17	1	-1·5	15·6	10·9	+1·7	1	0	0	1	0	0	0	0	0	0
Visakhapatnam . . .	37·1	+0·7	42·0	28	28·7	+1·4	26·3	9	0	0	-50·8	0	..	0	-2·7	22·7	15·2	+1·4	0	0	0	9	0	0	0	0	0	0
Calingapatam . . .	34·3	-0·3	40·4	29	28·1	+1·0	22·8	19	13·2	13·2	-51·8	3·2	19	1	-2·2	14·8	16·1	+2·1	1	0	0	2	0	0	0	0	0	0
Telangana																												
Ramagundam . . .	42·3	...	45·3	31	30·2	...	23·9	4	0	35·2	...	24·0	4	2	...	7·8	8·5	...	4	0	0	3	0	0	0	0	0	0
Nizamabad . . .	41·4	0	45·0	11	27·7	+0·3	22·3	20	2·0	8·6	-8·9	6·6	14	1	-0·4	9·4	6·7	-0·2	2	0	0	4	0	0	0	0	0	0
Mahabubnagar . . .	38·8	...	41·8	20	26·8	...	23·3	4	7·2	8·8	...	3·3	4	2	...	9·3	7·9	...	4	0	0	4	0	0	0	0	0	0
Hyderabad (Begumpet Aero drome) . . .	38·4	-0·1	41·7	11	26·2	+0·2																						

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—MAY, 1958 (VAISAKHA 11—JYAISTA 10, 1880 SAKA) 233

Division and station	Air temperature in °C									Rainfall in millimetres						No. of rainy days (2.5 mm. or more)	Wind speed, km. per hour	Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
Madras State—(Contd.)																													
Coimbatore	30.6	-4.1	34.8	22	23.0	-0.1	20.4	9,16	3.7	110.3	+47.6	31.0	16	7	+2.5	12.7	9.2	-3.1	12	0	0	9	0	0	0	0	0	0	
Coimbatore (Peela-medu Aerodrome)	32.9	...	35.9	3	22.8	...	19.4	9,11	3.7	91.4	...	19.0	11	7	...	20.9	18.7	...	13	0	0	9	0	0	0	1	0	0	
Salem	35.3	-2.1	37.9	3,9	24.5	-0.5	22.2	16	44.2	124.4	+7.6	39.8	24	10	+2.9	7.7	6.7	+0.9	13	0	0	8	0	0	0	0	0	0	
Kallakurichi	37.6	...	40.2	27	26.7	...	23.7	15	20.8	42.9	...	17.9	15	3	...	8.0	7.3	...	6	0	0	8	0	0	0	0	0	0	
Cuddalore	34.9	-1.7	38.8	27	27.1	+0.2	24.7	27	25.7	60.9	+35.5	35.5	6	3	+1.7	7.0	8.3	-0.2	4	0	0	3	0	0	0	0	0	0	
Vellore	37.1	-1.7	40.5	15	26.2	+0.1	22.8	20	10.7	109.7	+51.5	41.6	20	6	-2.2	9.3	8.1	+2.0	7	0	0	9	0	0	0	0	0	0	
Madras	36.2	-2.3	40.7	19	27.6	0	23.6	6	21.6	56.9	+30.7	39.3	5	2	+0.9	15.3	11.7	-2.5	3	0	0	4	0	0	0	0	0	0	
Madras (Nungambakkam)	34.6	...	39.6	19	27.2	...	23.2	7	...	70.5	...	55.9	6	2	...	...	7.3	...	2	0	0	1	0	0	0	0	0	0
Coastal Mysore																													
Karwar	31.3	...	34.4	14	26.4	...	22.4	6	27.9	205.4	+123.4	53.0	25	8	+4.5	16.4	12.9	...	10	0	0	0	0	0	0	0	0	0	
Honavar	32.1	-0.4	33.6	24	25.9	-0.2	22.7	15	23.0	79.7	-51.1	23.0	16	7	+1.4	4.9	3.2	-2.6	12	0	0	15	0	0	0	0	0	0	
Mangalore (Bajpe Aerodrome)	31.8	-0.9	33.7	3	26.0	0	21.9	12	113.4	288.4	+131.4	112.0	6	9	+2.3	11.0	9.1	+0.2	16	0	0	15	0	0	0	0	0	0	
Mysore (North)																													
Bidar	38.3	-0.7	41.9	11	25.9	+0.2	20.6	14	5.4	12.0	-11.4	4.0	22	2	-0.4	12.0	12.0	-0.7	7	0	0	0	0	0	0	0	0	0	
Gulbarga	39.7	-0.8	43.6	11	25.8	-0.1	20.6	26	38.2	80.0	+51.5	31.0	26	6	+3.6	14.2	11.3	-2.1	6	0	0	6	0	0	0	0	0	0	
Bijapur	38.4	-0.3	41.9	10	24.2	+0.6	21.8	15	74.7	110.5	+82.0	42.4	29	5	+2.8	8.8	9.5	-1.3	10	0	0	9	0	1	0	0	0	0	
Belgaum	31.9	-2.1	36.6	22	20.9	+0.7	18.5	25	42.9	202.8	+144.4	31.7	25	11	+6.7	...	...	...	14	0	0	12	0	0	0	0	0	0
Belgaum (C.T.O.)	...	...	...	...	21.0	+0.8	18.2	25	25.0	152.2	+93.8	33.8	1	8	+3.7	10.1	8.3	-1.9	11	0	0	12	0	0	0	0	0	0
Belgaum (Sambre Acrodrone)	32.9	...	36.4	22	20.5	...	18.7	19	23.6	160.3	...	31.0	1,6,14	7	...	18.5	18.3	...	11	0	0	13	0	0	0	1	0	0	
Gadag	35.2	-1.6	38.9	22	22.8	+0.2	19.7	25	84.2	238.5	+185.4	53.6	6	13	+8.9	10.4	11.4	-2.3	13	0	0	15	0	0	0	0	0	0	
Raichur	39.1	-0.7	42.2	11	26.7	+0.5	23.4	27	8.0	19.2	-8.0	10.2	27	3	+0.7	9.0	11.4	-1.8	3	0	0	2	0	0	0	0	0	0	
Mysore (South)																													
Bellary	36.9	-2.0	39.4	22,23	25.7	+0.3	20.6	15,25	25.0	83.4	+35.4	27.4	15	5	+1.7	7.3	6.1	-3.6	5	0	0	9	0	0	0	0	0	0	
Gudalur	33.3	-1.8	37.3	22	22.	+0.6	19.9	25	13.2	118.2	+43.5	38.6	25	8	+3.6	8.2	8.5	-1.3	8	0	0	11	0	0	0	0	0	0	
Shimoga	33.1	...	36.1	23	23.1	...	19.5	15	50.6	155.3	...	44.2	28	8	...	7.8	5.8	...	11	0	0	9	0	0	0	0	0	0	
Balehonnur	28.7	-0.5	31.1	21,23	20.2	+0.7	18.9	7,8,19	...	132.2	+26.8	40.1	6	9	+3.0	...	...	...	14	0	0	0	0	0	0	0	0	0
Hassan	30.4	-1.5	33.1	22	20.6	+0.8	19.4	12	53.2	108.6	-8.7	40.8	17	9	+1.8	9.3	8.4	-0.1	13	0	0	16	1	0	0	0	0	0	
Mysore	31.5	-1.8	33.6	3,11,21	20.7	-0.4	18.0	12	14.6	209.2	+67.2	57.0	3	10	+2.1	9.6	8.7	-1.1	12	0	0	8	0	0	0	0	0	0	
Bangalore (Central Observatory)	31.6	-1.3	34.0	3	21.1	+0.6	18.6	28	50.0	225.9	+120.2	52.3	28	10	+3.4	10.9	9.8	+0.9	16	0	0	16	0	0	0	2	0	0	
Bangalore (Aerodrome)	32.1	...	34.6	3	21.4	...	19.4	19	29.6	167.0	...	25.2	28	11	...	...	...	...	16	0	0	18	0	0	0	0	0	10
Kerala																													
Kozhikode	31.7	-0.6	33.9	10	25.1	-0.6	21.2	16	66.5	292.2	+56.5	48.4	16	17	+8.3	15.3	12.6	+1.3	18	0	0	21	0	0	0	0	0	0	
Palghat	32.0	...	36.1	1	24.5	...	21.7	16	83.5	241.2	...	62.4	5	13	...	12.7	9.5	...	19	0	0	6	0	0	0	0	0	0	
Fort Cochin	30.6	-0.2	32.2	1	25.2	-0.5	22.9	1,13	55.2	378.0	+81.3	69.1	1	17	+4.7	9.3	7.6	-0.9	22	0	0	16	0	0	0	0	0	0	
Cochin (Naval Air Station)	31.4	...	33.4	1	25.1	...	22.2	1	68.9	450.9	...	55.4	1	17	...	8.6	6.4	...	23	0	0	21	0	0	0	0	2	0	
Alleppey	31.5	...	33.3	1	25.1	...	22.8	16	168.8	633.8	...	138.0	12	18	...	13.8	11.7	...	20	0	0	16	0	0	0	0	0	0	
Punalur	33.1	...	35.0	22	23.6	...	22.1	13	184.3	345.5	...	67.6	2	15	...	3.8	2.9	...	15	0	0	0	0	0	0	0	0	0	
Trivandrum	31.3	-0.6	33.1	22	24.7	-0.6	23.0	13	99.3	226.8	+3.8	44.2	5	17	+6.9	11.0	8.0	-0.2	21	0	0	13	0	0	0	0	0	0	
Trivandrum (Aerodrome)	31.7	...	33.4	9	24.7	...	23.4	6	...	167.4	...	31.6	5,13	15	...	...	6.9	...	22	0	0	12	0	0	0	0	0	0
Arabian sea Islands																													
Minicoy*																													
Amini Divi*																													

234 TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—MAY, 1958 (VAISAKHA 11—JYAISTA 10, 1880 SAKA)

• Photo not included

(B) 列表式

• 500 pages

^aData based on observations upto 0830 hr. of 29th May 1958.

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—MAY, 1958 (VAISAKHA 11—JYAIKTHA 10, 1880 SAKA) 295

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)	Wind speed, km. per hour	Weather phenomena—No. of days with														
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall	Line squall		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29		
Hydrometeorological Observatories—Contd.																														
Sabarmati Catchment																														
—(Contd.)																														
Bikrani . . . . .	..	..	..	..	..	..	..	..	..	0	..	0	..	..	0	..	..	..	0	..	..	..	..	..	..	..	..	..
Tarpal . . . . .	..	..	..	..	..	..	..	..	0.5	..	0.5	..	0.5	..	0	..	..	0	..	..	..	..	..	..	..	..	..	..
Kotra Cantonment . . . . .	..	..	..	..	..	..	..	..	0	..	0	..	0	..	0	..	..	0	..	..	..	..	..	..	..	..	..	..
Dharoi	41.9	..	..	..	26.4	..	..	..	0	0	0	..	0	..	0	..	0	..	..	..	..	..	..	..	..	..	..	..
Ganga Catchment																														
Mukhini	25.8	..	29.2	23	15.3	..	9.3	31	56.4	69.8	..	31.5	15	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tehri	37.1	..	40.2	23,24	19.5	..	15.9	4,31	2.3	3.6	..	2.3	16	0	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gandak Catchment																														
Gorkha	30.4	..	34.1	27	20.0	..	13.9	7	25.9	140.0	..	25.4	2	11	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pokhara	30.8	..	34.6	26	18.8	..	14.7	6	116.5	180.7	..	39.4	8	13	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Nawakot	32.9	(h)	37.7	28	20.6	..	13.8	7	29.2	67.2	..	23.1	11	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Jomsom	21.7	..	26.3	24	6.7	..	3.2	4	2.0	13.0	..	7.1	16	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Timure	26.6	..	30.9	27	15.4	..	10.9	15	0	8.6	..	6.1	1	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gogra Catchment (Trans Himalayan Region)																														
Daitkh	(b)	30.1	..	33.4	23,24	..	..	..	3.9	50.4	..	27.7	7	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gogra Catchment																														
Dandeldhura	27.4	..	31.6	24	16.1	..	10.7	12	2.8	10.7	..	3.6	7	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Munsiyari (R)																														
Sallyana (R)																														
Butwal	(c)	38.9	..	44.0	27	26.2	..	16.8	6	0	14.2	..	7.1	8	3	..	..	..	..	..	..	..	..	..	..	..	..	..
Bagmati Catchment																														
Katmandu	30.7	..	35.0	25,27	14.4	..	10.7	7	12.0	82.8	..	29.7	7	8	..	4.7	2.4	..	10	0	1	10	0	0	0	2	1	0		
Kosi Catchment																														
Chautara	30.0	..	35.1	25	18.2	..	13.6	8	9.5	42.3	..	16.3	16	5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Okhaldunga	25.1	..	28.5	28	15.3	..	10.2	16	10.0	33.2	..	8.9	10	6	..	8.0	7.1	..	11	1	0	16	0	0	0	0	0	0		
Barahkshetra	34.0	..	38.4	29	23.9	..	19.2	16	19.5	150.9	..	72.4	16	5	..	15.2	8.9	..	11	0	0	17	0	0	0	0	0	0		
Angbung	28.7	..	33.7	28	18.1	..	14.8	8	..	147.8	..	43.7	16	15	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplejung	(a)	23.9	..	27.6	28	14.8	..	10.6	4	53.6	165.9	..	44.7	16	15	20	0	0	15	2	0	0
Taplethok		30.5	..	32.4	14	17.2	..	15.4	1	..	57.8	..	13.2	1	9	15
Wallung Chung Gola (R)																														
Bhojpur	(a)	23.1	..	29.7	28	17.2	..	13.8	8	7.2	21.6	..	8.9	16	2	
Chainpur		29.1	..	33.2	29	18.1	..	14.9	36.2	94.2	..	18.6	31	7	
Tista Catchment																														
Gangtok	21.9	..	25.0	30	14.1	..	11.4	7	64.8	348.4	..	109.7	24	24	..	5.6	5.7	80	0	2	13	8	0	0	0	0	0	
Geyzing	25.5	..	28.8	30	15.7	..	13.1	4	6.9	148.5	..	31.2	18	14	18	

(b) Mean of 23 days.

(f) Mean of 25 days.

(b) Mean of 29 days.

(c) Mean of 26 days.

(R) Reader not received.

(a) Mean of 30 days.

(c) Mean of 28 days.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—MAY, 1958 (VAISAKHA II—JYAI STA 10, 1880 SAKA)

Division and station		Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars		Mean temperature in °C			Vapour pressure in mb.		Relative humidity %		Cloud amount (Oktas)		Wind speed (km. p.h.)			No. of observations											
				At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Dry bulb	Wet bulb	Departure from normal	Dew point	At station level	Departure from normal	Vapour pressure in mb.	Relative humidity %	Departure from normal	Mean amount	Departure from normal	Mean wind speed, km. per hour	Wind speed (km. p.h.)	N	NE	E	SE	S	SW	W	NW	Calm	Variable	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28		
Bay Islands Maya Bandar	• •	0830	23	1009.1	1006.5	...	29.4	26.5	25.1	31.9	79	...	5.7	...	5.6	0	0	18	0	3	1	2	2	6	4	0	13	0	
		1730	"	1006.6	1004.0	...	28.3	25.9	24.9	31.3	82	...	6.5	...	4.7	0	0	15	1	1	0	0	0	5	8	0	16	0	
Long Island	• •	0830	34	1009.3	1005.5	...	29.4	26.9	25.8	33.5	82	...	6.6	...	1.7	0	0	14	0	0	0	3	0	8	3	0	17	0	
		1730	"	1006.8	1003.0	...	29.3	26.8	25.9	34.5	82	...	7.1	...	1.5	0	0	16	0	0	0	2	2	9	3	0	15	0	
Port Blair	• • •	0530	79	1007.8	998.9	...	26.3	25.3	25.1	31.4	93	...	6.4	...	5.8	0	0	23	0	0	0	0	3	3	7	8	1	5	0
		0830	"	1009.3	1000.5	+0.7	29.5	26.5	25.2	32.2	79	+1	6.7	+1.1	9.5	0	0	26	0	0	0	3	3	7	8	4	1	5	0
		1130	"	1008.3	999.5	...	30.0	26.6	25.3	32.0	77	...	6.4	...	8.9	0	0	31	0	0	2	1	7	4	7	9	1	0	0
		1730	"	1006.7	997.9	...	28.2	26.0	25.1	31.9	84	...	6.5	...	8.3	0	0	28	0	0	1	0	2	5	11	8	1	3	0
Car Nicobar	• •	0830	10	1009.6	1008.4	...	29.5	26.5	25.2	32.2	78	...	6.1	...	4.3	0	0	26	0	0	0	1	2	1	13	5	2	2	0
		1730	"	1007.2	1006.0	...	28.2	26.0	24.9	31.9	83	...	5.8	...	2.5	0	0	20	0	0	0	0	2	1	11	4	2	11	0
Nancowry	• •	0830	26	1010.4	1007.5	...	28.2	25.7	24.8	30.8	81	...	6.2	...	12.7	0	3	25	0	0	0	1	2	18	3	4	3	0	0
		1730	"	1007.5	1004.6	...	27.8	25.7	24.9	31.2	84	...	6.0	...	10.2	0	1	26	0	0	0	0	1	2	19	3	2	4	0
Kondul	• • •	0830	8	1010.1	1009.2	...	28.7	26.5	25.7	32.8	83	...	5.5	...	4.9	0	0	29	0	1	15	13	0	0	0	0	2	0	0
		1730	"	1007.6	1006.7	...	27.6	26.1	25.5	33.0	88	...	5.6	...	3.2	0	0	16	0	0	4	12	0	0	0	0	0	15	0
Assam (Including Manipur, Tripura) Pasighat	• • •	0830	157	1008.2	990.4	...	23.2	21.5	20.6	24.3	86	...	7.3	...	4.6	0	2	20	3	0	2	2	3	1	1	10	9	0	0
		1730	"	1004.4	986.7	...	24.2	22.2	21.1	25.3	84	...	6.5	...	4.3	0	1	16	4	0	0	0	0	1	1	11	14	0	0
Digboi	• •	0830	...	...	...	...	23.4	21.8	21.0	24.8	87	...	7.2	...	...	0	0	31	8	7	5	1	3	2	4	1	0	0
		1730	...	...	...	...	26.3	23.0	21.1	25.4	74	...	6.8	...	...	0	0	31	6	12	7	1	2	0	3	0	0	0
Dibrugarh	• •	0830	106	1007.8	995.7	0.1	23.5	21.4	20.2	23.8	83	0	7.4	+2.0	3.4	0	0	24	4	7	12	0	0	0	0	1	7	0	
		1730	"	1003.8	991.8	...	24.4	21.9	20.7	24.3	81	...	6.5	...	2.3	0	0	17	2	7	5	0	1	2	0	0	0	14	0
Dibrugarh (Mohanbari Aerodrome)	0230	111	1005.0	992.3	...	21.7	21.0	20.6	24.3	94	...	6.7	...	7.0	0	1	18	0	16	2	0	0	0	0	0	1	12	6	
	0530	"	1006.3	993.7	...	21.7	21.1	20.7	24.5	94	...	7.3	...	6.1	0	0	24	2	16	5	0	0	0	0	0	1	7	0	
	0830	"	1007.3	995.3	...	23.6	22.0	21.1	25.2	87	...	7.3	...	7.2	0	0	26	2	20	3	1	0	0	0	0	0	5	0	
	1130	"	1007.1	994.5	...	25.2	22.6	21.3	25.2	80	...	3.9	...	7.3	0	1	25	0	16	5	1	1	1	1	1	1	5	0	
North Lakhimpur	1730	"	1004.0	991.4	...	24.5	22.5	21.5	25.7	83	...	6.7	...	6.5	0	0	23	2	14	3	1	0	0	1	2	8	0		
	2330	"	1005.6	992.9	...	22.4	21.6	21.1	24.4	93	...	6.5	...	4.2	0	0	13	1	11	0	1	0	0	0	0	0	18	0	
	0830	102	1007.6	995.9	...	23.3	22.2	21.5	25.9	90	...	7.5	...	...	0	0	31	2	10	11	3	1	0	2	2	0	0	0
	1130	"	1006.8	995.2	...	25.7	23.3	22.1	26.8	81	...	7.0	...	...	0	3	27	0	10	12	4	1	1	0	2	1	0	0
Sibsagar	• • •	0830	97	1007.7	997.2	+0.6	24.6	22.8	21.8	26.5	85	+1	7.1	+0.8	4.5	0	0	29	8	11	4	1	1	0	3	2	0	0	
		1730	"	1004.3	993.3	...	25.7	23.3	22.0	26.8	80	...	6.7	...	4.7	0	0	28	13	10	3	1	0	1	0	0	3	0	
Jorhat	• • •	0530	90	1005.5	995.2	...	22.0	21.8	21.7	25.9	98	...	7.4	...	4.1	0	0	15	6	7	0	0	0	0	0	2	16	0	
		0830	"	1007.4	997.1	...	24.6	23.0	22.3	26.9	88	...	6.9	...	9.2	0	0	27	12	9	1	2	1	0	0	2	4	0	
Golaghat	• • •	0830	...	...	...	...	24.4	22.9	22.0	26.7	87	...	6.1	...	11.9	0	3	24	16	7	0	0	0	1	1	2	4	0
		1730	"	1003.0	993.2	...	25.4	23.4	22.5	26.0	84	...	7.4	...	0	0	9	0	0	0	6	0	0	0	0	3	22	0	
Gohpur (R)	0830	...	...	...	...	...	27.0	24.6	23.5	28.9	82	...	6.0	...	...	0	0	7	0	0	0	6	0	0	0	1	24	0
		1730	"	6.4	...	6.6	0	0	29	2	6	12	5	2	1	1	0	0	1	24	0
Tezpur	• •	0830	79	1007.8	998.8	-0.2	24.1	22.8	22.6	26.7	89	+8	7.2	+2.0	4.8	0	0	28	1	7	12	2	0	2	3	0	3	1	
		1730	"	1003.3	994.5	...	26.4	24.0	22.9	27.8	82	...	5.4	...	3.8	0	0	22	0	6	11	2	0	1	1	0	9	1	
Tezpur (P. B. O.)	0230	78	1004.6	995.6	...	22.7	22.0	21.6	26.0	94	...	6.6	...	6.1	0	1	25	0	11	15	0	0	0	0	0	4	0		
	0530	"	1005.8	996.8	...	22.4	22.1	21.4	26.4	94	...	6.9	...	5.1	0	0	26	1	9	14	0	1	1	0	0	0	5	0	
	0830	"	1007.7	998.7	...	24.3	22.6	21.9	26.0	86	...	7.0	...	6.7	0	1	29	2	8	17	1	1							

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—MAY, 1958 (VAISAKHA : I—JYAISTA 10, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Cloud amount (Oktas)			Wind speed (km.p.h.)			No. of observations														
			At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Mean amount	Departure from normal	Mean wind speed, km. per hour	62 or more	N	NE	E	SE	S	SW	W	NW	Calm	Variable				
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Assam—(Contd.)																													
Gauhati Aerodrome). (Bhorjor	0230	54	1004·0	997·8	...	23·5	22·5	22·1	26·5	92	...	5·9	...	8·0	0	2	23	3	17	0	0	2	2	0	1	6	0	0	
	0530	"	1005·1	998·9	...	23·1	22·3	21·8	26·3	93	...	6·6	...	4·7	0	0	23	2	12	4	2	0	0	0	0	3	8	0	
	0830	"	1006·7	1000·6	...	25·7	23·5	22·4	27·2	82	...	5·7	...	5·9	0	0	26	2	14	7	3	0	0	0	0	0	5	0	
	1130	"	1005·7	999·6	...	28·4	24·4	22·5	27·4	71	...	4·0	...	7·9	0	0	30	2	24	2	1	0	0	0	0	1	1	0	
	1730	"	1002·2	996·0	...	28·8	25·1	23·5	28·8	74	...	5·3	0	1	20	2	14	5	0	0	0	0	0	0	0	10	0		
	2330	"	1004·3	998·2	...	24·5	23·2	22·5	27·3	90	...	5·1	...	6·4	0	1	19	0	14	4	0	2	0	0	0	0	11	0	
Rangiya	0830	"	24·9	23·3	22·4	27·4	87	...	4·5	...	4·5	0	0	24	0	6	13	3	0	0	0	2	0	0	0	
	1730	"	(a) 28·0	(a) 25·1	(a) 23·4	(a) 29·4	77	...	3·7	...	6·9	0	0	17	0	3	7	3	0	1	1	2	0	0	0	
Goalpara	0830	38	1005·4	1001·1	...	25·1	23·5	23·0	27·7	86	...	5·4	...	4·0	0	0	27	0	11	8	6	2	0	0	0	4	0		
	1730	"	1001·1	996·8	...	29·3	25·8	24·3	30·3	74	...	5·0	...	3·6	0	0	25	0	15	4	2	0	1	2	1	6	0		
Dhubri	0830	35	1006·8	1002·8	0	26·2	24·5	23·5	29·4	85	+3	3·7	-1·3	3·0	0	0	17	0	11	4	1	0	1	0	0	14	0		
	1730	"	1002·6	998·7	...	27·3	25·4	24·7	30·8	86	...	3·0	...	3·5	0	1	19	1	15	2	0	0	2	0	0	11	0		
Dhubri (Rupsi Aerodrome).	0530	36	...	...	..	23·4	22·5	22·0	26·6	92	...	6·1	...	4·8	0	0	26	1	10	11	2	0	1	0	1	5	0
	0830	"	...	...	..	26·6	24·1	23·1	28·0	81	...	5·8	...	6·6	0	0	28	1	8	12	7	0	0	0	0	3	0
	1130	"	...	...	..	29·2	25·4	23·7	29·3	73	...	5·2	...	8·0	0	0	29	0	4	9	9	2	5	0	0	2	0
	1730	"	...	...	..	29·0	25·8	24·5	30·5	76	...	5·0	...	5·2	0	1	21	2	2	5	7	3	3	0	0	9	0
	Tura	0830	370	1006·7	965·6	...	26·6	26·1	25·9	33·3	96	...	5·4	...	6·8	0	1	27	0	1	5	11	0	6	3	2	3	0	
	1730	"	1003·1	962·6	...	29·6	29·0	28·6	39·6	95	...	4·2	...	6·5	0	0	31	0	0	5	9	9	6	1	1	0	0		
Agartala	0230	16	1003·8	1001·9	...	25·8	24·8	24·4	30·4	92	...	4·2	...	9·7	0	3	24	1	2	3	13	8	0	0	0	4	0		
	0530	"	1004·7	1002·9	...	25·7	24·9	24·6	30·8	93	...	5·0	...	8·2	0	1	28	4	2	1	15	6	0	1	0	2	0		
	0830	"	1006·3	1004·4	...	29·1	26·4	25·3	32·2	80	...	5·9	...	12·7	0	4	26	1	3	1	8	12	4	0	1	1	0		
	1130	"	1005·2	1003·5	...	31·9	27·0	25·0	31·7	67	...	5·5	...	16·2	0	7	24	2	1	2	1	23	2	0	0	0	0		
	1730	"	1002·1	1000·3	...	29·9	26·2	25·0	31·3	75	...	4·4	...	14·3	0	8	21	1	1	1	4	19	2	1	0	2	0		
	2330	"	1004·0	1002·2	...	26·4	25·0	24·3	30·5	89	...	4·7	...	10·6	0	6	22	1	3	2	13	9	0	0	0	3	0		
Silchar	0830	29	1007·8	1004·5	+0·2	27·0	24·2	22·9	28·0	79	-1	5·6	+0·6	0·2	0	0	2	1	0	0	0	0	0	0	1	29	0		
	1730	"	1003·4	1000·2	..	28·7	25·0	23·6	28·7	74	...	4·3	...	0·2	0	0	2	0	2	0	0	0	0	0	0	0	29	0	
Silhar Kumbhigram Aerodrome).	0530	97	1005·2	994·1	..	22·9	22·3	21·9	26·6	91	...	6·5	...	7·6	0	1	27	2	7	14	1	1	0	1	2	3	0		
	0830	"	1006·2	995·6	..	26·1	23·8	22·7	27·5	82	...	5·4	...	6·6	0	0	28	1	4	11	6	0	2	2	3	0			
	1130	"	1005·4	994·6	..	28·9	24·5	22·5	27·2	68	...	5·3	...	7·5	0	0	31	1	5	9	3	1	4	6	2	0			
	1730	"	1002·2	991·5	..	27·5	24·7	23·4	28·9	79	...	3·9	...	5·0	0	0	22	1	3	12	1	1	1	2	1	9	0		
	0530	801	1008·1	920·0	..	20·2	18·9	18·2	20·8	89	...	5·6	...	4·4	0	0	26	1	3	4	2	5	6	3	2	5	0		
	0830	"	1008·6	921·1	..	23·5	20·3	18·5	21·9	74	...	5·4	...	4·0	0	0	25	0	5	4	6	3	4	3	0	6	0		
Imphal	1130	"	1006·5	920·1	..	26·3	21·4	18·3	21·9	63	...	5·1	...	13·3	0	10	18	0	1	2	1	3	8	9	4	3	0		
	1730	"	1004·1	917·6	..	25·1	20·5	18·1	20·8	67	...	4·6	...	5·5	0	0	28	0	0	1	2	3	9	9	4	3	0		
Haifong	0830	682	1006·8	932·0	..	22·9	20·5	19·2	22·5	81	...	5·3	...	14·7	0	5	26	2	2	2	2	2	3	4	2	12	0		
	1730	"	1003·3	928·6	..	23·7	20·8	19·3	22·6	79	...	4·5	...	12·3	0	5	26	2	3	1	0	9	14	1	1	0			
Lumding	0830	149	1006·9	990·1	..	26·6	23·8	22·7	27·2	79	+1	5·9	...	4·3	0	0	21	0	1	8	4	3	1	1	1	10	2		
	1730	"	1002·7	986·2	..	29·5	25·0	23·1	28·0	69	...	3·8	...	4·6	0	0	18	0	0	2	4	7	3	1	1	13	0		
Sub-Himalayan West Bengal	0830	43	1006·2	1001·3	..	26·5	24·3	23·3	28·5	83	...	5·8	...	14·3	0	3	28	0	9	18	3	1	0	0	0	0	0		
	1130	"	1005·1	1000·3	..	29·0	25·8	24·6	30·5	77	...	5·0	...	12·8	0	0	31	0	7	14	8	0	1	0	0	0	1		
	1730	"	1001·5	996·6	..	29·0	26·2	25·1	31·8	79	...	3·5	...	6·2	0	0	27	1	16	8	2	0	0	0	0	4	0		
	0830	83	1006·4	997·0	-0·1	26·0	23·4	22·1	27·9	80	+1	3·9	+0·1	11·0	0	0	31	2	14	14	1	0	0	0	0	0	0		
	1730	"	1001·5	992·3	..	30·4	25·6	23·3	29·8																				

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—MAY, 1958 (VAISAKHA 11—JYAIKTHA 10, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars				Mean temperature in °C				Cloud amount (Oktas)				Wind speed (km p.h.)				No. of observations										
			At mean sea level or height in v.t.m. of nearest standard isobaric level.		At station level	Departure from normal	Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %		Departure from normal	Mean amount	Departure from normal	Mean wind speed, km. per hour	N	NE	E	SE	S	SW	W	NW	Calm	Variable			
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28		
1																													
Gangetic W. Beogal—Contd. Dum Dum—Contd.	1730	"	1000.8	1000.1	..	33.0	27.9	25.8	33.4	88	...	3.6	...	14.5	0	5	26	1	1	1	2	21	5	0	0	0	0	0	
	2330	"	1003.3	1002.6	..	28.2	26.6	25.9	33.5	68	...	3.2	...	12.8	0	4	25	0	1	2	3	19	4	0	0	0	2	0	
Calcutta	0930	6	1004.8	1004.1	-0.2	31.6	27.1	25.3	32.2	69	-5	3.2	-1.0	10.8	0	6	23	0	2	1	2	2	21	1	0	0	2	0	
	1130	"	1004.1	1003.4	..	35.1	28.0	25.2	31.9	56	...	2.6	...	11.9	0	3	25	2	0	0	4	7	14	1	0	0	3	0	
Barrackpore	1730	"	1000.8	1000.1	..	32.7	26.9	24.5	30.3	63	...	3.5	...	14.0	0	2	28	1	0	1	3	18	7	0	0	0	1	0	
	0530	7	1003.3	1002.5	..	27.4	26.1	25.6	32.8	90	..	4.0	..	11.3	0	3	25	0	1	1	3	11	11	1	0	0	3	0	
Saugor Island	0830	"	1004.9	1004.2	..	31.3	27.6	26.1	33.8	74	...	3.3	..	17.3	0	7	24	0	1	2	2	6	18	1	1	0	0	0	
	1130	"	1004.1	1003.3	..	35.2	27.9	24.8	31.7	56	...	2.7	..	15.7	0	5	26	0	1	2	2	7	18	1	0	0	0	0	
Sandheads	1730	"	1000.7	1000.0	..	32.9	27.2	25.1	31.5	64	...	3.5	..	17.2	0	8	22	1	0	0	5	15	8	0	1	1	0		
	0530	10	1003.5	1002.4	..	29.0	27.3	26.6	34.9	87	..	5.1	..	38.0	0	30	1	0	1	1	5	14	10	0	0	0	0	0	
Contai.	0830	"	1005.4	1004.3	+0.1	29.7	27.7	26.9	35.4	85	+6	4.0	+0.2	..	0	18	13	1	0	1	3	5	19	1	1	0	0	0	
	1130	"	1005.0	1003.9	..	29.6	27.7	27.0	35.5	85	..	4.0	..	..	0	17	14	1	0	2	1	3	23	1	0	0	0	0
Midnapore	1730	"	1001.9	1000.8	..	29.5	27.8	27.0	35.9	87	..	4.0	..	..	0	25	6	0	1	2	1	4	21	1	1	0	0	0
	0830	11	1005.0	1003.8	..	30.6	27.5	26.1	34.3	79	..	(a)	..	13.9	0	5	25	0	1	1	2	5	22	0	0	0	0	0	
Purulia	0830	255	1003.9	976.4	..	33.4	24.2	18.5	22.6	46	..	1.7	..	15.7	0	8	18	0	0	1	2	7	5	1	1	4	0		
	1730	"	998.9	971.9	..	37.1	23.1	13.7	16.7	29	..	3.5	..	7.2	0	1	26	5	0	1	7	5	1	1	4	0	0		
Burdwan	0830	32	1005.4	1001.8	+0.7	31.4	..	..	..	..	..	3.2	-1.0	3.7	0	0	20	1	0	0	2	9	8	0	0	11	0	
	1730	"	1000.3	996.7	..	35.2	..	..	..	..	..	3.9	..	3.9	0	6	25	1	0	0	0	0	18	4	2	0	6	0
Krishnagar	0830	15	1004.8	1003.2	-0.1	31.8	27.1	25.3	31.9	65	-7	1.8	-2.2	4.4	0	0	31	0	0	1	0	30	0	0	0	0	0		
	1730	"	1000.4	998.8	..	35.3	26.2	22.0	26.5	49	..	3.0	..	5.4	0	0	29	0	0	3	1	21	0	4	0	2	0		
Asansol	0230	126	1001.0	987.3	..	29.2	25.5	23.7	31.0	74	..	1.5	..	6.5	0	0	24	0	0	0	11	8	2	3	0	7	0		
	0530	"	1002.4	988.3	..	28.0	24.8	23.5	29.1	77	..	2.4	..	3.5	0	0	18	0	0	0	9	4	1	2	2	13	0		
Suri	0830	77	1004.2	995.7	..	32.4	24.9	20.6	25.3	54	..	1.7	..	7.8	0	0	27	0	0	1	10	11	3	2	0	4	0		
	1730	"	999.7	991.4	..	37.1	23.4	13.9	17.6	33	..	5.4	..	13.3	0	6	24	2	1	7	7	4	1	3	5	1	0		
Berhampore	0830	19	1004.1	1002.0	-1.1	30.8	26.3	24.2	30.6	69	-4	2.8	-1.6	5.4	0	0	27	0	0	4	4	15	2	2	0	4	0		
	1730	"	999.4	997.3	..	36.5	25.3	19.3	23.0	42	..	3.2	..	4.7	0	0	21	0	0	2	1	17	1	0	0	10	0		
Oriissa	0830	54	1004.8	998.8	..	31.9	26.7	24.4	30.7	66	..	4.4	..	3.2	0	0	27	1	0	0	1	7	16	0	1	4	1		
	1730	"	1000.3	994.3	..	34.8	26.1	21.4	26.9	52	..	4.0	..	4.4	0	0	26	1	1	1	5	3	9	1	0	5	5		
Balasore	0830	20	1004.5	1002.3	-0.1	31.6	26.9	24.2	28.2	67	-3	4.5	+1.0	17.8	0	10	21	1	2	0	1	12	15	0	0	0	0		
	1730	"	1000.8	998.6	..	31.6	26.0	23.6	29.2	64	..	4.9	..	17.5	0	13	17	2	1	0	9	12	6	0	0	1	0		
Chandbali	0230	6	1005.5	1004.8	+0.9	32.0	27.3	25.4	32.4	68	-5	3.7	-1.0	15.2	0	7	24	0	1	1	4	12	11	0	2	0	0		
	1730	"	1002.3	1001.6	..	32.4	26.9	24.1	31.0	62	..	3.2	..	19.1	0	12	19	1	1	4	12	9	2	0	2	0	0		
Cuttack	0830	27	1005.2	1002.2	0	31.4	26.8	24.8	31.2	70	0	5.0	+1.1	2.7	0	0	14	0	0	0	0	2	11	1	0	0	17	0	
	1720	"	1001.1	998.2	..	35.6	26.5	22.0	26.2	48	..	4.5	..	4.3	0	0	20	0	0	1	0	0	2	17	0	0	11	0	
Plubaneswar	0230	46	1003.0	997.8	..	29.0	26.2	24.9	31.8	79	..	4.2	..	26.6	0	20	11	1	1	0	0	0	14	14	1	0	0	0	
	0530	"	1003.8	998.6	..	28.5	26.0	24.9	31.6	82	..	5.8	..	21.3	0	16	13	0	1	0	0	0	13	12	1	2	0	0	
Puri	0830	6	1004.7	999.7	..	36.7	26.3	21.6	25.7	43	..	3.8	..	26.2	0	20	11	1	2	0	1	9	13	3	2	0	0		
	1730	"	1001.8	996.6	..	33.9	26.2	22.6	28.6	54	..	4.7	..	33.6	0	25	6	0	1	1	0	0	15	12	1	1	0	0	
Gopalpur	0530	17	1004.2	1002.3	..	27.9	26.6	26.0	33.6	90	..	4.2	..	15.9	0	12	14	1	1	0	0	0	13	13	2	1	0	0	
	0830	"	1006.0	1004.1	+1.0	30.2	27.4	26.3	34.4	80	+1	3.7	+1.3	16.2</															

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—MAY, 1958 (VAISAKHA II—JYAIESTHA IO, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Mean pressure in millibars		Mean temperature in °C.				Cloud amount (Oktas)		Wind speed (km. p.h.)		No. of observations																
		At mean sea level Or height in G.P.M. above mean sea level in metres	At station level from isobaric level	At mean sea level in G.P.M. of standard				Departure from normal	Relative humidity %	Departure from normal	Mean wind speed, km. per hour	Wind direction			N	NE	E	SE	S	SW	W	NW	Calm	Variable				
				5	6	7	8					11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
Orissa—Contd.																												
Koraput	0830	913	1491.2	908.2	...	24.8	21.2	19.4	22.5	72	...	3.8	...	...	0	0	31	1	0	0	0	6	20	2	2	0	0
	1730	„	1478.6	906.1	...	28.8	21.2	16.9	19.5	51	...	5.2	...	...	0	0	31	4	0	1	5	10	4	0	7	0	0
Titlagarh	0830	211	1005.8	982.4	...	31.7	24.1	20.1	23.7	52	...	2.5	...	3.6	0	0	30	1	1	10	12	4	1	0	1	5	0	
	1730	„	1000.0	977.3	...	37.7	23.5	15.7	17.4	28	...	2.8	...	3.1	0	0	26	1	3	2	5	7	5	2	1	5	0	
Bolangir	0830	190	1004.6	983.7	...	32.8	27.3	24.9	31.8	64	...	3.1	...	13.8	0	2	29	2	1	1	5	11	10	0	1	0	0	
	1730	„	1000.4	979.8	...	37.4	27.9	23.7	29.7	49	...	4.5	...	14.1	0	5	26	2	3	1	4	8	11	1	1	0	0	
Angul	0830	139	1005.4	990.0	+1.0	31.2	24.9	21.6	26.3	55	-11	4.0	+0.5	3.2	0	0	24	1	4	5	4	5	1	2	2	7	0	
	1730	„	1000.8	985.9	...	37.4	24.2	16.5	19.3	32	...	5.3	...	7.2	0	0	30	4	6	0	3	7	9	0	1	1	0	
Keonjhar	0830	463	1001.8	951.8	...	31.6	23.7	19.5	23.2	51	...	2.3	...	8.2	0	1	29	4	0	3	6	2	4	9	2	1	0	
	1730	„	996.8	947.8	...	35.8	22.6	14.5	16.4	31	...	4.3	...	7.8	0	1	30	4	1	2	3	4	6	6	5	0	0	
Sambalpur	0830	148	1005.0	988.8	+0.9	34.3	26.4	22.8	28.4	52	+4	2.6	+0.2	5.3	0	0	27	0	0	0	1	8	14	4	0	4	0	
	1730	„	999.5	983.7	...	39.4	26.3	19.9	24.5	34	...	3.6	...	4.6	0	0	21	2	0	1	3	5	6	3	1	10	0	
Jharsuguda	0230	230	1001.9	976.5	...	29.7	22.7	18.8	21.9	54	...	2.2	...	1.6	0	0	12	0	0	1	1	6	1	2	1	19	0	
	0530	„	1003.0	977.5	...	28.2	22.5	19.3	22.6	60	...	2.9	...	2.1	0	0	13	2	0	2	4	3	0	1	1	18	0	
	0830	„	1004.5	979.4	...	33.1	23.9	18.9	22.2	45	...	2.5	...	5.1	0	1	22	0	0	1	1	13	3	4	1	8	0	
	1130	„	1003.1	978.4	...	38.2	24.5	16.6	19.6	30	...	1.7	...	7.2	0	1	28	0	0	0	1	5	7	11	5	2	0	
	1730	„	998.8	974.3	...	38.5	23.1	13.0	15.6	24	...	3.7	...	7.4	0	2	23	1	0	1	2	5	4	8	4	6	0	
	2330	„	1002.1	976.9	...	31.6	22.4	17.0	19.6	44	...	2.4	...	5.1	0	0	23	2	0	1	2	12	2	1	3	8	0	
Chota Nagpur Jamshedpur	0830	129	1004.1	990.0	+0.7	32.6	24.6	20.7	24.3	51	-7	1.8	-1.0	6.8	0	0	29	0	1	2	1	0	8	15	2	2	0	
	1730	„	998.7	984.8	...	38.4	23.7	14.5	17.3	27	...	3.8	...	7.2	0	1	25	0	2	4	3	1	6	5	5	5	0	
Jamshedpur (F. B. O.)	0530	145	1002.9	986.8	...	28.9	23.3	20.4	25.1	61	...	3.3	...	1.7	0	0	13	0	2	2	0	1	6	2	0	18	0	
	0830	„	1004.1	988.2	...	33.2	24.5	19.8	23.9	47	...	2.5	...	4.9	0	0	29	0	0	1	1	4	16	6	1	2	0	
	1130	„	1002.6	986.9	...	38.9	24.4	16.8	19.9	29	...	2.9	...	9.3	0	0	31	2	1	1	3	0	14	6	4	0	0	
	1730	„	999.9	984.3	...	38.6	23.0	12.9	15.5	25	...	5.0	...	7.3	0	1	27	2	1	5	4	0	7	4	5	3	0	
	2330	„	1002.2	986.3	...	31.9	24.1	19.9	24.4	51	...	2.6	...	4.8	0	1	25	0	4	3	7	1	6	2	3	5	0	
Chaitara	0830	226	1004.0	979.3	+0.4	33.0	27.7	25.3	32.9	65	+6	1.7	-0.8	2.8	0	0	24	0	1	0	0	0	19	2	2	7	0	
	1730	„	998.5	974.4	...	38.5	28.3	25.2	29.9	48	...	4.0	...	3.1	0	0	23	0	6	0	2	1	12	2	2	0	8	0
Ranchi	0830	655	1003.5	933.2	+0.5	31.1	20.0	12.5	15.3	36	-11	2.9	+0.7	1.8	0	0	13	1	0	2	0	4	3	3	0	18	0	
	1730	„	999.0	930.0	...	35.0	19.8	9.2	11.9	23	...	3.6	...	1.2	0	0	9	1	0	1	0	0	4	2	1	22	0	
Ranchi (C. W. O.)	0530	652																										
	0830	„																										
	1130	„	1001.4	932.9	...	36.3	29.6	9.3	12.6	22	...	2.1	...	9.8	0	2	27	3	0	1	1	8	11	2	3	2	0	
	1730	„	998.2	929.9	...	36.4	20.6	9.7	12.6	23	...	3.5	...	5.1	0	0	24	1	1	0	2	6	11	2	7	0		
Lalitonganj	0830	221	1003.0	979.0	-0.1	34.5	22.7	15.5	19.1	33	-7	2.0	+0.6	1.3	0	0	11	2	0	0	0	0	1	6	2	20	0	
	1730	„	998.0	974.6	...	39.9	22.8	11.3	13.6	19	...	2.7	...	3.4	0	0	26	5	0	0	1	0	0	8	12	5	0	
Hazaribagh	0830	611	1002.8	937.5	+0.6	33.1	20.1	11.3	13.9	30	-15	4.3	+1.9	6.9	0	0	30	0	0	0	0	5	17	1	7	1	0	
	1730	„	997.8	933.8	...	36.7	19.7	6.6	10.7	19	...	4.5	...	7.5	0	0	31	5	0	0	0	4	2	0	20	0		
Dhanbad	0830	257	1003.1	975.1	...	33.3	23.6	17.0	21.1	45	...	1.8	...	6.7	0	0	31	1	0	3	4	8	4	11	0	0		
	1730	„	998.2	970.7	...	38.1	22.6	11.3	14.7	25	...	4.9	...	9.7	0	2	29	2	1	2	3	5	1	10	7	0		
Bihar Purnea	0830	38	1004.7	1000.4	-0.7	29.1	24.9	23.1	28.2	71	-1	3.5	+0.1	4.7	0	0	31	2	4	21	2	0	0	2	0	0	0	
	1730	„	999.7	995.5	...	34.1	26.1	22.3	27.1	53	...	1.7	...	3.5	0	0	21	0	11	6	0	0	2	2	0	10	0	
Forbesganj	0830	61	1004.7	997.3	...	29.5	24.8	22.9	28.2	59	...	4.0	...	14.1	0	2	29	0	1	27	2	1	0	0	0	0	0	
	1730	„	999.9	993.2	...	35.1	25.3	20.1	24.4	45	...	1.3																

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—MAY, 1958 (VAISAKHA II—JYAISSHA 10, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars												Mean temperature in °C				Cloud amount (Oktas)				No. of observations																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
At mean sea level or height in g.p.m. of nearest standard isobaric level				At station level				Departure from normal				Vapour pressure in mb.				Relative humidity %				Departure from normal				Wind speed (Km. p.h.)				Wind direction																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989</th

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—MAY, 1958 (VAISAKHA 11—JYAISTA 10, 1880 SAKA)

Division and station	Hour of observation I.S.T.	No. of observations																										
		Wind direction												Wind speed (Km. p.h.)														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (East) Contd.																												
Hardoi	0830	142	1002.6	986.9	...	32.1	23.5	19.0	22.1	46	...	0.4	...	3.7	0	0	27	3	2	1	5	0	2	7	7	4	0	
	1730	"	998.4	983.2	...	40.2	25.9	18.3	20.9	29	...	0.4	...	4.5	0	0	29	4	1	0	1	0	1	17	5	2	0	
Lakhimpur Kheri	0830	147	1003.0	986.8	...	30.7	20.9	14.2	17.9	39	...	0	...	5.0	0	0	28	0	0	9	0	0	0	0	19	0	3	0
Bahraich	0830	124	1002.4	989.1	-0.5	32.8	23.2	17.3	21.0	43	-8	0.5	-0.7	11.0	0	8	19	1	0	12	5	1	1	4	3	4	0	
	1730	"	998.4	984.7	...	38.2	23.7	14.2	16.9	25	...	0.5	...	9.9	0	3	24	0	2	3	0	0	0	0	17	5	4	0
Uttar Pradesh (West)																												
Orai	0830	141	1004.3	989.0	...	35.3	24.2	17.3	20.0	36	...	0.5	...	5.4	0	0	30	4	1	0	3	0	6	2	14	1	0	
	1730	"	999.6	984.5	...	41.0	25.6	16.5	21.0	26	...	1.3	...	5.2	0	0	30	3	0	0	0	0	0	3	4	20	1	0
Jhansi	0830	251	1003.8	976.3	+0.2	33.7	23.3	17.2	20.1	39	+9	2.9	+1.7	3.0	0	0	21	4	0	0	1	1	5	3	7	10	0	
Agra	0830	169	1003.4	984.7	+0.2	34.0	22.3	13.4	17.3	29	+2	0.8	-0.3	2.0	0	0	16	0	0	0	0	0	4	4	4	15	0	
Agra (Aerodrome) (R)	0530	168																										
(R)	0830	"																										
(R)	1130	"																										
(R)	1730	"																										
Mainpuri	0830	157	1003.3	986.0	+0.5	33.3	20.5	11.5	13.8	27	-10	0.4	-0.9	2.8	0	0	28	0	0	1	1	0	1	25	0	3	0	
	1730	"	997.8	981.9	...	40.9	22.2	8.3	11.2	14	...	1.5	...	2.7	0	0	26	0	0	0	0	1	0	20	5	5	0	
Aligarh	0830	187	1002.9	982.2	...	32.0	19.6	9.4	12.8	27	-4	0.9	+0.2	2.9	0	0	24	0	0	2	0	0	0	14	8	7	0	
	1730	"	998.9	979.0	...	39.5	22.4	9.6	13.4	18	...	2.2	...	4.3	0	1	24	6	0	0	0	1	1	11	6	6	0	
Bareilly	0830	173	1002.6	983.6	-0.3	32.4	20.2	11.7	13.5	29	-17	1.0	-0.4	5.1	0	0	27	1	0	10	2	0	1	10	3	4	0	
	1730	"	998.1	979.6	...	39.4	20.7	4.4	8.8	12	...	1.1	...	5.9	0	0	23	0	1	1	0	0	1	19	1	8	0	
Bareilly (P. B. O.)	0230	172	1000.4	981.2	...	28.9	21.2	17.2	18.7	51	...	0.4	...	4.7	0	0	21	2	1	4	0	1	0	11	2	10	0	
	0530	"	1000.9	981.7	...	27.0	20.9	19.2	19.2	58	...	0.5	...	4.4	0	0	17	3	1	4	0	0	0	5	4	14	0	
	1130	"	1002.3	983.7	...	37.1	26.4	22.1	26.3	43	...	0.9	...	10.6	0	7	21	0	1	5	2	1	2	12	5	3	0	
	2330	"	1001.0	982.0	...	31.4	22.7	18.3	20.9	50	...	0.5	...	5.3	0	2	18	1	0	3	2	1	1	8	4	11	0	
Meerut	0830	222	1003.1	978.9	+0.5	33.4	21.0	12.2	14.5	29	-11	0	-1.2	4.0	0	0	19	0	0	14	1	0	0	4	0	12	0	
Najibabad	0830	270	1003.4	973.5	...	29.9	19.3	11.8	14.9	34	...	1.2	...	2.6	0	0	20	1	5	1	5	0	0	0	8	11	0	
	1730	"	999.3	970.4	...	38.3	20.6	6.0	11.2	15	...	1.1	...	4.5	0	0	27	1	3	0	0	0	2	0	21	4	0	
Roorkee	0830	274	1002.4	972.2	-0.7	29.7	18.7	10.4	13.0	32	-7	2.7	+1.4	1.6	0	0	17	1	2	0	5	0	0	0	9	14	0	
	1730	"	997.8	968.9	...	37.5	20.0	7.2	10.2	15	...	2.7	...	2.9	0	0	27	1	0	0	5	0	0	0	21	4	0	
Dehra Dun	0530	682	1002.4	927.2	...	21.5	14.6	9.0	11.7	46	...	1.7	...	1.0	0	0	7	2	4	0	0	0	1	0	0	24	0	
	0830	"	1002.7	929.1	0	28.4	17.8	10.4	12.7	34	-10	1.4	-0.5	1.4	0	0	14	1	1	0	1	3	4	2	2	17	0	
	1130	"	1001.4	929.2	...	33.7	18.3	6.2	9.7	19	...	2.3	...	2.7	0	0	24	1	0	0	0	3	5	13	2	7	0	
	1730	"	998.5	926.5	...	34.5	18.4	5.8	9.3	19	...	2.5	...	3.8	0	1	26	0	1	1	2	4	7	9	3	4	0	
	2330	"	1002.3	928.1	...	25.6	16.1	8.6	11.5	37	...	1.0	...	2.5	0	0	21	10	8	0	0	0	1	0	2	10	0	
Punjab (India) (Including Delhi)																												
New Delhi	0230	216	1001.5	977.1	...	23.4	18.3	10.3	13.0	34	...	0.6	...	9.3	0	2	25	4	1	2	1	2	0	7	10	4	0	
	0530	"	1001.6	977.4	...	26.3	17.4	9.9	12.5	37	...	1.2	...	6.0	0	0	24	1	1	1	0	3	3	8	7	7	0	
	0830	"	1003.2	979.3	+0.2	31.7	19.3	9.3	12.1	27	-3	0.5	-0.6	12.5	0	3	27	2	0	2	1	3	4	9	9	1	0	
	1130	"	1002.7	979.3	...	37.2	20.8	7.7	10.6	17	...	0.4	...	15.0	0	5	25	2	2	1	2	1	3	7	12	1	0	
	1730	"	999.2	975.9	...	38.2	20.7	7.0	10.4	16	...	1.6	...	18.0	0	11	19	3	2	0	0	1	3	2	19	1	0	
	2330	"	1001.8	977.9	...	30.6	19.3	10.5	13.0	31	...	0.9	...	8.6	0	3	18	6	3	1	1	1	2	6	10	0		
Hissar	0530	221	1001.9	977.1	...	25.2	17.1	10.7	13.1	41	...	1.5	...	4.0	0	0	26	2	3	1	6	2	6	3	3	5	0	
	0830	"	1003.1	978.7	+0.2	31.1	20.0	12.3	14.4	33	-3	0.3	-0.7	5.4	0	0	28	4	3	2	5	2	3	4	5	3	0	
	1130	"	1002.7	978.9	...	39.0	22.6	11.4	13.9	21	...	1.3	...	5.0	0	0	28	5	3	2	2	4	5	3	4	3	0	
	1730	"	999.4	975.8	...	39.1	22.3	10.4	13.2	20	...	0.9	...	7.7	0	0	30	4	0	1	0	0	6	9	10	1	0	
Karnal	0830	249	1002.9	975.1	...	26.2																						

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—MAY, 1958 (VAISAKHA 11—JYAISTA 10, 1880 SAKA)

Division and station		Hour of observation I.S.T		Height of barometer crater above mean sea level in metres		Mean pressure in millibars		Mean temperature in °C		Cloud amount (Octas)		Wind speed (km p.h.)		No. of observations														
														Wind direction		N	NE	E	SE	S	SW	W	NW	Calm				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27		
Punjab (India) (Including Delhi)—Contd.	Ambala (F.B.O.)—Contd.	1130	278	1001.9	971.9	...	36.5	19.7	8.1	8.9	19	0.8	...	11.5	0	4	26	5	3	2	5	0	2	3	10	1	0	
		2330	"	1001.4	970.8	...	30.5	17.6	8.2	9.4	26	0.8	...	11.9	0	4	21	6	3	2	3	0	0	3	8	6	0	
Ambala (Aerodrome)		0530	273	1001.3	970.5	...	24.5	15.8	7.7	11.0	36	1.5	...	7.6	0	1	21	1	0	3	7	0	1	3	7	9	0	
		0830	"	1002.3	972.2	...	30.8	18.2	7.3	10.9	25	1.4	...	11.8	0	7	19	3	3	2	5	0	0	4	9	5	0	
		1130	"	1002.0	972.4	...	36.8	20.3	5.6	9.8	15	1.1	...	18.0	0	14	17	0	2	4	4	0	2	4	15	0	0	
		1730	"	998.8	969.4	...	37.6	20.1	4.4	9.1	15	2.0	...	21.1	0	16	15	0	0	1	1	1	2	11	15	0	0	
		2330	"	1001.7	971.4	...	28.7	17.4	7.5	11.1	28	1.2	...	10.5	0	4	18	1	1	2	1	0	1	4	12	9	0	
Chandigarh	..	0630	347	1002.1	964.2	...	32.4	18.7	8.0	10.4	23	0.5	...	...	0	0	15	0	2	0	8	0	0	0	5	16	0
		1730	"	998.8	961.8	...	37.2	20.5	6.4	10.6	16	1.7	0	0	25	0	0	0	3	0	0	0	2	20	6	0
Ludhiana	..	0830	247	1002.7	975.5	+2.8	31.9	21.3	15.0	17.0	35	+4	1.1	-0.2	0.6	0	0	6	1	1	2	0	0	1	1	0	25	0
		1730	"	998.9	972.3	...	37.4	23.6	15.6	17.7	30	1.1	...	2.0	0	0	13	0	1	0	1	0	1	6	4	18	0	
Ferozepur	..	0830	200	1002.0	980.2	...	28.4	20.5	15.9	17.7	48	0.4	...	2.2	0	0	18	6	5	0	2	0	1	1	3	13	0	
		1730	"	999.3	977.7	...	37.2	24.0	15.7	19.0	30	0.8	...	2.9	0	0	21	0	3	0	0	1	0	0	17	10	0	
Amritsar	..	0530	234	1002.5	976.0	...	22.7	15.4	9.0	11.8	44	2.4	...	8.5	0	1	27	4	5	6	1	1	0	4	7	3	0	
		0830	"	1003.3	977.4	...	29.2	17.8	7.9	11.1	27	2.2	...	11.8	0	4	24	7	2	8	3	1	0	2	5	3	0	
		1130	"	1002.9	977.5	...	35.5	19.4	6.5	9.5	17	1.6	...	11.2	0	4	22	4	4	3	2	3	1	2	6	5	1	
		1730	"	999.8	974.5	...	37.1	19.4	2.7	7.5	13	1.3	...	14.1	0	0	31	0	1	2	2	2	7	9	8	0		
Pathankot	..	0830	344	1003.5	965.7	...	29.0	19.5	12.2	15.1	37	4.2	...	4.4	0	0	14	2	5	3	3	0	0	0	1	17	0	
		1730	"	1000.8	963.9	...	35.7	21.1	9.8	13.7	23	3.9	...	9.6	0	2	27	1	7	0	1	1	2	13	4	2	0	
Pathankot (Aerodrome)		0830	312	1003.0	968.9	...	30.7	17.8	6.7	10.0	23	3.7	...	5.8	0	2	22	4	12	2	1	2	1	2	0	7	0	
		1130	"	1002.5	968.9	...	35.4	19.1	4.7	16	...	3.7	...	8.1	0	2	28	0	6	3	3	5	5	3	1	0		
		1730	"	999.4	966.1	...	36.5	18.9	2.0	8.0	13	3.5	...	14.1	0	5	25	5	3	1	0	2	4	10	5	1		
Himachal Pradesh	Bilaspur	0830	493	1004.3	949.8	...	26.2	16.6	9.3	10.8	31	1.8	...	2.3	0	1	14	2	1	0	2	5	2	0	3	16	0	
		1730	"	999.2	946.5	...	35.4	18.2	3.9	7.0	15	2.8	...	8.5	0	1	30	4	4	1	2	3	4	9	0	3		
Mandi	..	0830	761	1004.5	921.3	...	23.1	15.6	10.1	12.2	45	2.1	...	1.5	0	0	13	1	1	1	1	2	1	1	3	18	0	
Jammu and Kashmir	Srinagar	0530	1587	1489.5	840.3	...	11.1	10.0	9.1	11.6	88	3.9	...	2.1	0	0	16	0	0	0	8	1	0	4	3	15	0	
		0830	"	1503.0	841.4	+1.2	14.1	11.7	9.8	11.9	76	-2	4.0	+1.1	3.4	0	0	28	0	1	2	16	2	0	3	4	3	
		1130	"	1494.9	841.1	...	18.6	13.6	10.1	12.1	59	4.4	...	4.6	0	0	30	2	0	0	12	3	1	5	7	1	0	
		1730	"	1475.9	839.3	...	18.8	13.2	9.0	11.3	56	6.3	...	7.7	0	3	19	1	3	1	0	1	0	10	6	9	0	
		2330	"	1494.2	840.8	...	13.7	11.6	10.0	12.1	79	3.9	...	3.2	0	0	23	5	0	0	5	1	4	8	0	8	0	
Gulmarg		0830	2655																									
		1730	"																									
Leh	..	0530	3514	3101.0	665.0	...	2.1	-2.0	-8.8	2.9	40	3.3	...	2.3														
		0830	"	3100.6	666.8	-0.5	6.2	1.2	-6.9	3.9	42	+4	4.3	+0.8	0.6	0	0	4	0	0	0	1	2	1	0	27	0	
		1730	"	3070.0	664.4	...	10.7	2.9	-8.8	3.2	28	6.0	...	8.4	0	1	29	5	1	1	2	1	9	7	4	1	0	
Skardu	(R)	0830	2288																									
Gilgit	(R)	0830	1491																									
Nisgar	(R)	0830	3106																									
Jammu	..	0830	...	...	...	...	29.1	17.4	7.6	10.2	27	-7	4.6	+2.8	12.0	0	1	30	0	0	31	0	0	0	0	0	0
Rajasthan (West)	Sri Ganganagar	0530	177	1001.8	981.9	...	25.1	16.3	9.1	11.1	37	...	1.1	...	4.2	0	2	12	2	3	2	1	1	3	0	2	17	0
		0630	"	1002.1	982.7	...	30.3	19.0	8.5	12.8	27	-4	1.3	+0.9	4.0	0	1	19	0	5	2	7	1	3	0	2	11	0
		1130	"	1002.2	983.2	...	37.7	20.1	5.6	9.5	15	...	1.1	...	5.2	0	1	25	2	2	3	6	4	6	1	2	5	0
		1730	"	998.8	979.8	...	38.6	19.6	3.5	7.3	12	...	1.6	...	4.7	0	0	26	3	1	1	2	2	3	8	6	5	0
		2330	"	1001.6	982.0	...	29.8	18.0	8.0	11.0	27	...	0.9	...	3.0	0	0	16	0	4	4	4	1	1	2	0	15	0
Churu	..	0830	291	1003.5	971.5	...	30.7	19.2	9.9	12.4	30	...	1.2	...	8.7	0	3	22	3	1	2	2	3	4	8	2	6	0
		1730	"	999.3	968.3	...	39.8	21.5	5.6	11.0	15	...	2.6	...	13.4	0	4	27	4	1	0	1	0	2	15	8	0	0
Bikaner	..																											

TABLE III.—SUMMARY OF OBSERVATIONS AT FIXED HOURS—MAY, 1958 (VASSAKHA 11—JYAISTA 10, 1880 SAKA)

TABLE III.—SUMMARY OF OBSERVATIONS AT FIXED HOURS—MAY, 1958 (VAISAKHA 11—JYAISTA 10, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars				Mean temperature in °C				Cloud amount (Oktas)				Wind speed (km. p.h.)				No. of observations											
			At mean sea level or height in mm. of nearest standard isobaric level				At station level				Departure from normal				Departure from normal				Mean wind speed per hour				Wind direction							
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28			
1																														
Madhya Pradesh (West) —Contd.																														
Guna—Contd.	1730	478	998.6	948.7	...	39.5	19.3	2.4	7.4	10	...	2.1	...	14.8	0	7	24	2	0	0	0	1	5	12	11	0	0			
	2330	"	1002.5	950.5	...	30.0	17.0	6.2	8.8	23	...	0.8	...	2.5	0	0	12	0	0	0	1	2	1	8	0	19	0			
Rajgarh	0830	382	1004.2	962.8	...	33.1	19.9	9.0	12.6	24	...	0.7	...	13.4	0	5	25	3	0	1	2	1	5	7	1	0	0			
	1730	"	998.7	958.3	...	41.0	20.7	2.0	7.9	11	...	1.4	...	12.7	0	4	27	9	1	0	0	3	3	13	2	0	0			
Neemuch	0830	490	1005.2	951.5	+0.4	31.7	19.7	11.1	14.3	31	-16	1.6	+0.8	12.2	0	2	27	0	4	0	0	0	0	6	18	1	2	0		
	1730	"	999.8	947.7	...	39.6	18.5	-1.0	6.0	8	...	3.0	...	13.8	0	5	26	2	5	1	0	0	0	13	12	2	2	0		
Ratlam	0830	486	1005.8	952.4	...	28.0	21.3	17.4	20.5	55	...	1.3	...	12.0	0	1	28	1	1	0	0	0	0	13	10	8	1	0		
	1730	"	1000.1	948.9	...	39.4	21.7	9.7	12.9	18	...	1.7	...	10.8	0	1	29	4	1	1	0	0	0	0	8	20	1	2	0	
Alirajpur	0830	293	1007.0	974.6	...	29.6	23.5	20.3	23.7	59	...	1.4	...	15.1	0	3	26	0	0	0	0	1	0	8	17	5	0	0		
	1730	"	1001.2	970.1	...	39.8	21.8	10.9	11.5	18	...	1.3	...	15.7	0	4	27	0	0	0	0	0	0	12	12	2	1	0		
Indore	0830	567	1004.3	942.1	...	26.1	17.2	10.5	13.2	40	...	1.6	...	14.7	0	5	25	3	1	0	0	0	0	8	10	10	0	0		
	0830	"	1005.2	943.8	-0.2	30.4	20.4	13.9	16.8	39	-9	1.6	+0.6	20.0	0	9	22	2	1	0	0	0	0	4	7	10	1	0		
	1130	"	1003.6	943.5	...	36.8	20.6	9.6	12.4	21	...	1.4	...	18.8	0	10	20	6	2	1	0	0	0	1	14	10	3	0	0	
	1730	"	999.4	939.9	...	38.8	20.2	6.0	10.2	15	...	2.7	...	20.5	0	12	19	1	1	0	1	1	1	6	8	13	0	0		
	2330	"	1003.8	942.4	...	29.9	17.1	6.6	10.1	24	...	1.0	...	13.0	0	5	26	2	1	0	0	0	0	1	14	11	8	0	0	
Bhopal (Bairagarh)	0230	523	1002.2	945.4	...	29.2	16.5	5.6	9.5	24	...	1.4	...	13.9	0	4	27	4	3	0	0	0	0	1	2	9	14	0	0	
	0330	"	1003.3	946.2	...	27.3	16.1	6.2	10.2	28	...	1.4	...	13.4	0	2	29	4	1	0	0	0	0	1	2	9	14	0	0	
	0830	"	1004.4	948.1	+0.4	32.4	18.9	8.8	12.0	25	-6	1.5	+0.6	19.9	0	14	16	5	1	1	1	1	3	6	12	1	0	0		
	1130	"	1002.9	947.7	...	38.1	19.9	5.8	10.0	15	...	1.3	...	17.0	0	10	19	6	3	2	0	0	0	5	3	10	2	0	0	
	1730	"	998.8	943.9	...	39.5	19.9	4.4	8.9	13	...	2.4	...	20.9	0	15	16	5	0	0	0	0	0	3	10	13	0	0	0	
	2330	"	1002.5	946.2	...	32.0	17.4	5.1	9.3	20	...	1.4	...	12.6	0	2	26	3	2	0	0	0	0	1	2	11	9	3	0	0
Khandwa	0830	318	1005.2	970.5	-0.2	32.5	21.9	15.2	16.4	37	-3	3.2	+2.1	10.0	0	0	31	1	2	0	0	0	0	2	16	10	0	0	0	
	1730	"	999.3	965.7	...	41.3	21.9	6.8	10.1	13	...	4.0	...	8.6	0	0	31	2	1	0	0	0	0	4	12	2	0	0	0	
Hoshangabad	0830	302	1004.5	971.6	-3.0	33.2	19.3	7.9	11.1	22	-10	3.0	+1.8	2.1	0	0	14	0	1	2	0	1	0	7	3	0	17	0	0	
	1730	"	998.4	966.5	...	41.3	21.5	5.2	9.6	12	...	4.2	...	2.5	0	0	16	4	0	1	0	0	0	4	4	3	15	0	0	
Betul	0830	653	1005.0	934.9	...	31.0	20.3	13.6	16.0	37	...	3.3	...	6.2	0	0	28	2	3	0	0	0	0	2	2	8	11	3	0	0
	1730	"	998.6	930.5	...	38.3	21.3	9.8	13.0	20	...	3.5	...	11.3	0	1	30	7	2	0	0	0	0	2	9	11	0	0	0	
Chhindwara	0830	685	1003.9	930.9	...	32.7	18.9	7.9	11.7	25	...	2.7	...	7.7	0	0	29	3	7	1	0	1	0	7	3	8	2	0	0	
	1730	"	998.1	926.8	...	38.6	19.4	3.8	8.2	13	...	3.9	...	9.1	0	0	30	5	1	0	1	0	1	4	18	1	0	0		
Seoni	0830	619	1004.0	938.2	+0.8	32.6	22.3	15.7	19.5	38	+9	2.9	+1.3	4.4	0	0	25	4	2	2	4	7	1	3	6	0	0	0		
	1730	"	998.9	933.8	...	38.5	23.9	15.7	18.8	28	...	4.2	...	3.3	0	0	25	5	2	0	1	4	6	0	7	6	0	0	0	
Sagar.	0830	551	1003.3	944.2	0	32.9	18.2	6.8	10.0	21	-10	1.5	+0.1	8.1	0	1	28	0	3	3	1	1	3	11	7	2	0	0	0	
	1730	"	997.3	940.6	...	38.9	20.1	7.1	9.6	14	...	2.4	...	10.9	0	1	30	0	2	0	0	0	0	19	10	0	0	0	0	
Nowrang	0830	229	1003.7	978.8	+0.4	33.8	19.4	7.6	11.0	21	-12	1.1	-0.8	4.1	0	0	28	2	3	2	0	0	4	11	5	1	3	0	0	
	1730	"	998.7	974.5	...	41.8	21.5	5.1	9.1	11	...	2.3	...	6.4	0	0	30	1	0	0	0	0	0	11	4	14	1	0	0	
Madhya Pradesh (East)																														
Sutna	0530	317	1001.9	966.8	...	28.3	17.0	6.9	10.2	27	...	1.3	...	2.5	0	0	13	0	1	0	1	2	2	5	18	0	0	0	0	
	0830	"	1002.9	968.6	+0.2	34.9	19.8	7.5	11.0	20	-10	1.0	-0.6	5.1	0	0	28	0	2	2	0	3	12	5	4	3	0	0		
	1130	"	1001.8	968.1	...	40.7	21.1	4.4	9.1	12	...	0.8	...	10.5	0	0	31	1	1	1	0	2	12	7	7	0	0	0		
	1730	"	998.2	964.6	...	41.0	20.8	2.9	8.2	10	...	2.0	...	7.7	0	1	29	1	0	0	0	0	0	3	8	18	1	0	0	
	2330	"	1001.3	966.7	...	31.9	18.3	6.6	10.2	21	...	1.4	...	2.0	0															

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—MAY, 1958 (VAISAKHA 11—JYAISTHA 10, 1880 SAKA)

Division and station	Hour of observation I.S.T.			Mean pressure in millibars				Mean temperature in °C				Cloud amount (Oktas)				Wind speed (km. p.h.)				No. of observations																	
				At mean sea level or height in s.p.m. of nearest standard isobaric level				At station level				Departure from normal				Mean wind speed, km. per hour				N		NE		E		SE		S		SW		W		NW		Calm	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28									
Madhya Pradesh (East) —Contd.																																					
Champa	0830	245	1004.8	978.0	...	33.4	22.6	16.2	18.4	38	...	2.7	...	5.1	0	1	21	3	1	2	1	4	4	6	1	9	0										
	1730	"	999.0	973.0	...	39.9	22.4	10.7	13.0	18	...	4.3	...	7.1	0	1	28	5	4	2	0	4	1	8	5	2	0										
Raigarh	0830	220	1004.5	980.4	...	33.7	24.1	19.1	22.2	44	...	3.1	...	4.7	0	0	31	0	1	0	12	4	12	1	1	0	0										
	1730	"	998.7	975.2	...	40.7	24.1	13.1	16.4	21	...	3.8	...	3.2	0	0	25	2	1	0	6	0	9	3	4	6	0										
Raipur	0530	298	1002.8	970.0	...	29.9	21.1	15.5	18.0	43	...	3.8	...	8.1	0	3	23	0	1	1	0	9	9	5	1	5	0										
	0830	"	1004.2	971.8	+0.6	33.8	22.9	16.5	19.0	37	+	3.4	+1.3	9.7	0	3	26	3	1	0	0	4	10	10	1	2	0										
Kanker	1130	"	1002.9	971.0	...	38.7	23.9	14.9	17.6	26	...	3.2	...	10.5	0	2	27	1	1	0	1	4	8	8	6	2	0										
	1730	"	998.5	966.9	...	40.3	22.5	9.8	12.8	17	...	5.0	...	7.5	0	1	26	2	1	0	0	8	3	6	5	4	0										
Jagdalpur (P. B.O.)	2330	"	1002.0	969.5	...	33.1	21.6	14.0	16.2	33	...	2.5	...	12.9	0	4	26	1	1	2	2	19	5	0	0	1	0										
	0830	402	1004.9	961.9	+1.9	32.4	23.6	18.6	21.4	45	+	5	3.3	+0.2	1.1	0	0	9	0	1	0	0	2	3	2	1	22	0									
Desra	0830	"	999.4	956.7	...	37.9	23.7	15.2	17.6	27	...	4.3	...	0.9	0	0	5	1	0	1	0	2	0	0	26	0	7	0									
	1730	"	1004.6	943.8	...	24.6	21.3	20.2	22.6	76	...	5.8	...	0.8	0	0	24	1	1	1	0	1	2	13	6	0	7	0									
Idar	0530	553	1005.6	945.7	...	29.5	23.3	20.4	24.2	59	+	4	1	+1.4	4.4	0	0	27	1	1	0	1	5	11	5	3	4	0									
	0830	"	1005.6	945.1	-0.9	34.2	24.0	19.4	22.3	43	...	3.2	...	5.9	0	0	27	1	1	0	1	5	11	5	3	4	0										
Ahmedabad	1130	"	1001.0	942.0	...	33.1	23.2	18.0	21.1	44	...	6.0	...	7.5	0	3	20	2	2	3	2	6	5	1	1	8	1	0									
	1730	"	1004.6	944.2	...	26.8	22.1	19.8	22.9	66	...	4.9	...	2.6	0	1	14	0	0	2	2	6	3	1	1	16	0										
Dohad	0830	136	1006.1	990.9	-0.2	30.1	24.3	21.1	25.6	61	...	(a)	2.2	7.0	0	0	29	2	0	0	2	11	3	7	4	1	0										
	1730	"	1000.8	986.2	...	41.3	25.5	16.2	19.6	26	...	2.4	...	8.9	0	0	31	0	0	0	0	1	7	18	5	0	0										
Baroda	0830	219	1006.1	981.8	...	29.9	24.5	21.3	26.3	64	...	0.1	...	4.8	0	0	30	3	2	0	0	0	9	15	1	1	0	0									
	1730	"	1000.9	977.6	...	40.4	25.4	16.7	20.2	28	...	0.5	...	8.4	0	0	31	3	0	1	0	1	5	18	3	0	0										
Baroda (Aerodrome)	0230	55	1004.2	998.0	...	30.0	23.6	19.9	23.9	58	...	0.3	...	9.7	0	0	31	0	0	0	0	4	7	15	5	0	0										
	0530	"	1004.6	998.4	...	27.7	23.3	20.9	25.0	67	...	0.8	...	8.4	0	0	26	1	0	0	0	0	4	13	8	5	0	0									
Surat	0830	"	1006.6	1000.4	-0.6	29.9	24.7	22.2	26.8	64	-6	1.2	-0.4	12.5	0	2	28	2	0	0	0	1	6	14	7	1	0	0									
	1130	"	1006.3	1000.3	...	36.3	24.9	18.9	22.2	38	...	0.9	...	13.1	0	1	30	2	0	0	1	0	2	6	14	6	0	0									
Surat	1730	"	1001.5	995.5	...	41.8	23.9	12.5	15.0	19	...	1.0	...	14.9	0	4	27	1	0	1	0	2	7	14	6	0	0										
	2330	"	1004.6	998.5	...	32.1	24.9	20.9	25.6	55	...	0.5	...	13.6	0	4	26	0	0	0	0	0	10	11	6	3	1	0									
Dohad	0830	333	1006.1	969.5	...	29.9	22.5	18.3	21.2	52	-8	0.8	-0.6	23.5	0	20	11	0	2	0	1	0	13	15	2	0	0										
	1730	"	1001.7	966.3	...	39.8	21.3	7.0	10.2	14	...	0.5	...	19.7	0	14	17	2	1	0	0	0	9	13	6	0	0										
Baroda	0530	34	1005.3	1001.4	...	28.1	24.4	22.4	27.7	73	...	1.2	...	1.8	0	0	15	0	0	0	0	0	10	4	1	16	0										
	0830	"	1007.3	1003.4	...	30.7	25.1	22.3	27.3	62	-2	2.0	+0.6	4.2	0	0	28	1	0	0	0	0	0	23	3	1	9	0									
Baroda (Aerodrome)	1130	"	1007.0	1003.1	...	36.6	24.4	17.8	20.6	34	...	0.6	...	4.5	0	0	29	2	0	0	0	0	0	21	5	1	2	0									
	1730	"	1002.2	998.4	...	41.2	23.5	11.9	14.5	19	...	0.3	...	6.2	0	0	30	0	0	1	0	0	0	2	26	1	0	2	0								
Surat	2330	"	1005.4	1001.5	...	30.7	24.7	21.6	26.2	59	...	0.5	...	6.8	0	0	29	0	0	0	0	0	0	10	11	6	3	1	0								
	0830	38	1007.2	1003.9	...	30.6	25.2	22.6	27.6	63	...	1.3	...	10.4	0	3	28	2	0	0	0	0	4	17	5	3	0	0									
Surat	1130	"	1006.7	1002.6	...	36.1	24.7	18.7	21.8	37	...	0.3	...	8.4	0	1	29	2	1	0	0	0	1	13	10	3	1	0									
	1730	"	1002.0	997.9	...	40.6	24.3	14.5	17.0	23	...	0.4	...	8.1	0	1	29	1	0	0	0	0	0	0	13	12	4	1	0								
Broach	0830	17	1007.0	1005.0	...	29.8	25.6	23.5	29.3	70	...	2.0	...	6.9	0	0	31	0	0	0	0	0	0	2	28	0	1	0	0								
	1730	"	1002.6	1000.7	...	38.3	25.5	18.5	22.2	34	...	0.6	...	11.3	0	0	31	0	0	0	0	0	0	0	21	8	2	0	0								
Kandla	0530	12	1005.6	1004.3	...	27.4	25.3	24.2	30.5	82	...	1.9	...	7.1	0	0	27	1	0	1	1	1	13	10	1	0	4	0									
	0830	"	1007.4	1006.1	-0.4	30.7	25.8	23.5	29.2	66	0	1.9	-1.1	8.6	0	0	31	0	1	0	0	0	8	18	1	3	0	0									
Kandla	1130	"	1007.5	1006.2	...	34.6	26.2	22.4	27.2	50	...	1.5	...	9.6	0	0	30	2	0	0	0	0	5	16	4	3	1	0									
	1730	"	1003.6	1002.3	...	34.7	26.3	22.0	27.4	50	...	0.7	...	14.2	0	4	27	0	0	0	0	0	10	14	3	4	0	0									
Saurashtra and Kutch	2330	"	1006.0	1004.7	...	29.2</																															

(a) Mean of 30 days.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—MAY, 1958 (VAISAKHA II—JYAISTA 10, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Cloud amount (Oktas)			Wind speed (km. p.h.)	No. of observations										Variable								
			At station level			Departure from normal			Relative humidity %				Departure from normal			Mean wind speed, kms. per hour			Wind direction												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
Saurashtra and Kutch—Contd.																															
Mandvi . . .	0830	9	1006.9	1005.9	...	28.9	27.8	27.3	36.4	91	...	1.2	...	28.3	0	23	8	0	0	0	0	0	8	20	1	0	2				
Dwarka . . .	1730	"	1004.5	1003.5	...	31.0	28.8	27.5	38.3	84	...	2.1	...	41.6	0	31	0	0	0	0	0	0	0	10	21	0	0	0			
Porbander . . .	0830	11	1007.4	1006.1	+0.2	28.7	26.4	25.4	32.7	82	-1	5.3	+3.0	16.7	0	8	23	0	0	0	0	0	0	8	18	5	0	0			
Porbander . . .	1730	"	1004.9	1003.6	...	30.4	27.0	25.6	32.9	76	...	5.8	...	20.4	0	11	20	0	0	0	0	0	0	0	4	20	7	0	0		
Porbander (Aerodrome)	0830	7	1007.4	1006.6	...	28.3	25.9	24.9	31.4	80	...	3.1	...	...	...	...	...	1	0	0	0	0	0	6	19	5	0	0		
Jamnagar . . .	1130	"	1007.7	1006.9	...	31.0	27.2	25.6	33.0	72	...	2.1	...	...	...	0	0	0	0	0	0	0	0	12	15	4	0	0		
Jamnagar . . .	0530	23	1005.3	1002.7	...	25.7	24.3	23.4	29.2	87	...	1.7	...	15.6	0	9	22	0	0	0	0	0	0	1	19	9	2	0	0		
Jamnagar . . .	0830	"	1006.8	1004.3	+0.1	29.0	25.5	23.9	29.8	74	+8	1.9	+0.3	20.6	0	18	13	0	0	0	0	0	0	9	20	2	0	0			
Jamnagar . . .	1130	"	1006.8	1004.3	...	34.6	26.2	22.3	27.1	50	...	0.3	...	24.0	0	25	6	0	0	0	0	0	0	0	1	28	2	0	0		
Jamnagar . . .	1730	"	1003.5	1001.0	...	33.3	26.2	22.9	28.1	55	...	0.4	...	34.7	0	29	2	0	0	0	0	0	0	0	0	0	0	0	0	0	
Rajkot (Aerodrome)	0830	134	1007.0	992.0	0	28.4	24.3	22.3	26.9	70	+1	0.4	-1.8	23.7	0	19	12	0	0	0	0	0	0	0	17	11	3	0	0		
Rajkot (Aerodrome)	1130	"	1006.3	991.7	...	36.2	23.4	15.8	18.3	31	...	0.2	...	22.7	0	16	15	2	0	0	0	0	0	0	9	15	5	0	0		
Surendranagar . . .	0830	74	1006.4	998.0	...	29.6	26.2	24.9	31.3	76	...	1.4	...	14.9	0	5	26	0	0	0	0	1	0	0	9	9	12	0	0		
Surendranagar . . .	1730	"	1002.2	987.8	...	39.3	22.6	11.0	13.8	20	...	0.5	...	31.5	0	25	6	1	1	0	0	0	0	0	7	13	9	0	0		
Bhavnagar . . .	0830	74	1006.4	998.0	...	29.6	26.2	24.9	31.3	76	...	1.4	...	14.9	0	5	26	0	0	0	0	1	0	0	9	9	12	0	0		
Bhavnagar . . .	1730	"	1001.7	993.7	...	41.7	29.0	23.0	29.6	38	...	1.8	...	15.2	0	8	22	0	1	0	0	0	0	0	12	9	8	1	0		
Bhavnagar . . .	0830	17	1007.4	1005.5	-0.1	29.7	23.8	20.1	24.8	59	-2	0.3	-1.5	3.7	0	0	31	0	0	0	0	0	0	1	15	2	13	0	0		
Bhavnagar (Aerodrome)	1730	"	1002.6	1000.8	...	39.5	28.7	23.8	30.4	44	...	1.0	...	7.9	0	0	30	0	0	0	3	1	22	3	0	1	1	0			
Bhavnagar (Aerodrome)	0830	11	1007.2	1006.0	...	30.6	24.1	20.7	24.6	57	...	0.6	...	16.7	0	6	25	2	0	0	0	0	0	0	2	16	10	1	0		
Mahuva . . .	0830	16	1007.3	1005.5	...	29.2	25.6	24.0	29.8	75	...	0.5	...	18.3	0	11	20	4	2	11	1	1	6	3	3	0	0	0	0		
Keshod . . .	0830	51	1007.8	1002.0	...	33.2	28.3	26.0	34.4	69	...	1.0	...	11.2	0	2	22	0	0	0	0	0	0	0	13	14	0	0	0		
Keshod . . .	1130	"	1007.1	1005.9	...	35.8	24.8	18.9	22.4	39	...	0.5	...	33.8	0	26	1	0	0	0	0	0	0	0	7	17	7	0	0		
Veraval . . .	0230	8	1005.8	1004.9	...	27.0	25.3	24.5	31.0	86	...	0.9	...	13.8	0	4	25	1	0	0	0	0	0	0	1	16	11	2	0		
Veraval . . .	0530	"	1005.9	1005.0	...	26.2	24.6	23.9	29.5	87	...	1.9	...	9.4	0	1	26	3	0	0	0	0	0	0	0	12	12	4	0	0	
Veraval . . .	0830	"	1007.7	1006.8	-0.4	28.6	25.7	24.3	30.6	78	-4	2.1	-0.3	13.4	0	5	22	2	0	0	0	0	0	0	1	13	11	4	0	0	
Veraval . . .	1130	"	1008.1	1007.2	...	30.5	26.6	24.9	31.7	72	...	1.0	...	17.1	0	8	23	0	0	0	0	0	0	0	0	7	20	4	0	0	
Veraval . . .	1730	"	1005.1	1004.1	...	29.7	26.7	25.3	32.5	77	...	0.9	...	23.6	0	20	11	0	0	0	0	0	0	0	0	5	22	4	0	0	
Veraval . . .	2330	"	1006.9	1006.0	...	27.7	25.8	25.0	31.6	86	...	1.5	...	15.4	0	4	27	1	0	0	0	0	0	0	1	19	10	0	0	0	
Koskan . . .																															
Dahanu . . .	0830	5	1007.2	1006.7	-0.4	30.0	26.1	24.2	30.4	72	-5	3.1	-1.3	11.4	0	1	30	2	1	1	2	7	6	11	1	0	0				
Dahanu . . .	1730	"	1004.7	1004.2	...	31.6	27.3	25.5	32.8	71	...	1.7	...	19.5	0	11	20	2	0	0	0	2	24	3	0	0					
Bombay (Colaba) . . .	0830	11	1008.2	1007.0	-0.7	30.6	26.3	24.4	30.7	70	-4	3.7	+0.4	5.9	0	0	31	4	1	1	6	4	3	6	6	0	0				
Bombay (Santacruz Aerodrome)	1130	"	1008.4	1007.2	...	32.8	27.1	24.6	31.1	62	...	2.1	...	10.3	0	0	31	1	1	0	0	1	5	16	7	0	0				
Bombay (Santacruz Aerodrome)	1730	"	1005.2	1004.0	...	32.0	27.0	24.8	31.6	66	...	1.9	...	15.8	0	4	27	0	0	0	0	0	0	0	1	16	14	0	0		
Alibag . . .	0230	15	1006.3	1004.7	...	28.0	25.2	23.7	29.8	78	...	2.1	...	3.8	0	0	14	1	1	0	0	0	0	0	7	3	2	17	0		
Alibag . . .	0530	"	1006.5	1004.9	...	27.2	24.7	23.4	29.1	81	...	2.5	...	2.6	0	0	8	0	1	0	1	1	4	1	0	23	0				
Alibag . . .	0830	"	1008.2	1006.6	-0.7	30.2	25.7	23.8	29.4	68	-4	4.0	+0.7	8.6	0	1	21	2	0	0	0	2	10	3	3	9	0				
Alibag . . .	1130	"	1008.2	1006.6	...	32.4	26.2	23.4	28.9	59	...	2.6	...	21.4	0	14	17	1	1	0	0	0	0	0	6	20	3	0	0		
Alibag . . .	1730	"	1005.0	1003.4	...	31.3	26.1	23.7	29.4	64	...	1.9	...	23.1	0	20	11	1	0	0	0	0	0	0	3	18	8	0	0		
Alibag .																															

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—MAY, 1958 (VAISAKHA 11—JYAISTHA 10, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs.	Relative humidity %	Cloud amount (Octas)			Wind speed (km. p.h.)	No. of observations														
			At station level			Departure from normal					Departure from normal				Wind direction														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	Variable
Maharashtra																													
Nandurbar	0830	206	1006.7	983.8	...	30.1	22.8	18.8	21.8	51	...	2.5	...	15.8	0	3	28	0	0	0	0	0	18	12	1	0	0		
Jalgaon	1730	"	1001.2	979.2	...	39.8	23.3	12.7	15.2	21	...	3.4	...	13.8	0	3	27	0	0	0	1	0	0	16	12	1	1	0	
Malegaon	0830	201	1006.0	983.8	...	30.7	22.8	18.0	21.5	50	...	1.6	...	27.5	0	25	6	0	0	1	1	0	0	0	20	9	0	0	
Malegaon	1730	"	1000.1	978.8	...	41.7	21.1	2.7	8.3	11	...	2.0	...	21.2	0	16	15	4	1	1	0	1	2	11	11	0	0		
Deccati	0830	437	1006.2	958.6	-0.3	31.3	21.4	14.9	17.4	39	-8	1.5	+0.1	8.8	0	0	30	1	2	0	0	0	2	15	10	1	0		
Aurangabad	0830	571	1007.9	945.3	...	27.1	21.9	19.3	22.5	64	...	2.1	...	15.8	0	6	25	1	0	0	0	0	3	19	7	1	0		
Aurangabad	1730	"	1002.4	941.8	...	35.7	22.1	14.2	16.6	29	...	2.5	...	17.3	0	7	24	3	0	0	0	0	5	9	14	0	0		
Aurangabad (Chikalthana Aerodrome)	0230	579	1003.7	940.9	...	28.3	20.9	16.8	19.3	52	...	2.5	...	6.1	0	1	16	3	1	1	1	0	0	6	5	14	0		
Ahmednagar	0530	"	1004.7	941.3	...	25.9	19.8	16.2	18.6	57	...	2.0	...	7.9	0	1	20	2	0	0	0	0	0	14	5	10	0		
Ahmednagar	0830	"	1005.8	943.2	...	30.2	23.0	19.3	22.8	54	...	1.7	...	10.7	0	3	23	3	0	1	0	0	0	0	17	5	5	0	
Ahmednagar	1130	"	1004.0	942.7	...	36.6	24.1	17.4	20.7	35	...	1.8	...	14.8	0	8	21	16	1	1	0	0	0	0	4	7	2	0	
Ahmednagar	1730	"	999.6	938.9	...	38.1	24.5	17.1	20.7	32	...	3.9	...	13.3	0	6	24	9	3	1	0	0	0	0	3	14	1	0	
Ahmednagar	2330	"	1004.1	941.7	...	30.7	22.0	17.0	20.1	46	...	2.2	...	11.1	0	1	26	5	1	0	1	1	0	7	12	4	0		
Panjharani	0830	657	1006.4	935.3	-0.4	28.7	20.7	16.1	18.5	48	+7	2.3	+0.9	4.2	0	0	28	0	2	0	1	0	5	0	20	3	0		
Panjharani	1730	"	999.6	931.0	...	38.2	21.9	12.3	14.3	23	...	3.9	...	5.5	0	0	29	0	7	0	0	0	0	0	22	2	0		
Poona	0830	423	1005.7	959.8	...	32.2	27.6	25.6	33.1	69	...	3.0	...	12.7	0	3	28	1	1	0	1	2	5	12	9	0	0		
Poona	1730	"	999.3	954.7	...	40.0	...	...	...	...	...	4.6	...	11.8	0	3	28	7	6	1	2	2	0	5	8	0	0
Poona (Lohagaon Aerodrome)	0530	559	1006.4	944.5	...	23.8	21.1	19.7	23.1	78	...	2.4	...	1.6	0	0	11	0	0	0	0	0	0	7	4	0	20	0	
Poona (Lohagaon Aerodrome)	0830	"	1007.4	946.2	-0.5	27.3	22.2	19.7	23.1	64	+6	2.2	+0.2	1.9	0	0	13	1	0	0	0	0	4	5	0	3	18	0	
Baramati	1130	"	1005.4	945.6	...	34.0	22.4	16.1	18.7	36	...	2.0	...	2.9	0	0	18	2	1	1	0	0	2	7	5	13	0		
Baramati	1730	"	1001.6	942.1	...	34.8	23.4	17.7	20.4	39	...	2.5	...	8.0	0	0	28	0	1	0	1	0	4	11	11	3	0		
Baramati	2330	"	1006.6	945.3	...	26.5	22.4	20.4	24.2	69	...	2.5	...	4.7	0	0	22	0	0	0	1	3	6	11	1	9	0		
Baramati	0230	593	1005.9	940.5	...	24.2	21.2	19.6	22.9	76	...	2.7	...	17.6	0	8	22	2	0	0	0	0	0	0	13	15	1	0	
Baramati	0530	"	1606.5	940.8	...	23.1	20.9	19.9	23.1	82	...	3.0	...	11.9	0	3	26	1	0	0	0	0	0	0	10	18	2	0	
Baramati	0830	"	1007.6	942.6	...	26.5	21.3	18.7	21.5	62	...	2.8	...	16.0	0	9	21	0	0	0	0	0	0	0	1	16	13	1	0
Baramati	1130	"	1005.5	942.0	...	33.8	21.4	13.9	16.4	32	...	2.4	...	16.7	0	11	20	2	3	3	0	0	0	0	0	10	13	0	0
Baramati	1730	"	1001.5	938.5	...	34.3	22.3	15.5	18.1	35	...	3.6	...	27.0	0	23	8	1	0	0	0	0	0	0	6	24	0	0	
Baramati	2330	"	1006.8	941.6	...	25.9	21.8	19.8	23.1	70	...	2.7	...	19.0	0	13	17	0	0	0	0	0	1	0	16	13	1	0	
Jeur	0830	551	1006.9	946.8	...	28.3	21.9	18.6	21.7	57	...	2.6	...	12.5	0	2	27	3	0	0	0	0	0	1	10	15	2	0	
Jeur	1730	"	1000.2	942.0	...	36.6	22.1	13.6	16.0	28	...	3.9	...	18.0	0	11	20	9	3	1	1	2	1	4	10	0	0		
Sholapur	0830	521	1006.0	949.3	...	28.8	22.8	20.2	23.3	60	...	2.9	...	8.3	0	0	31	2	2	0	0	0	1	10	16	0	0		
Sholapur	1730	"	999.3	944.6	...	38.2	23.2	14.8	17.3	27	...	4.1	...	5.5	0	0	29	0	2	4	2	0	2	10	9	2	0		
Miraj	0530	479	1005.0	952.4	...	26.7	22.2	20.1	23.5	68	...	4.7	...	8.4	0	0	27	4	1	0	1	1	8	8	4	4	0		
Miraj	0830	"	1006.5	954.1	-0.5	28.8	22.8	20.0	23.3	60	+12	4.4	+2.2	6.8	0	0	27	3	1	0	0	0	5	3	15	4	0		
Miraj	1130	"	1004.5	953.4	...	36.0	24.1	18.1	21.1	37	...	2.9	...	11.3	0	0	31	11	1	0	3	0	7	0	9	0	0		
Kolhapur	0830	554	1007.5	946.7	-0.3	26.0	22.8	21.4	25.4	75	+3	5.2	+2.5	11.0	0	1	28	2	1	0	0	0	3	11	12	2	0		
Kolhapur	1730	"	1001.4	942.5	...	34.2	23.4	17.9	20.8	40	...	6.0	...	21.0	0	15	16	2	2	1	1	5	10	4	9	1	0		
Vidarbha	0530	570	1006.4	943.4	...	23.5	21.8	21.1	25.0	86	...	3.7	...	8.7	0	2	29	0	1	0	0	0	1	3	23	3	0		
Vidarbha	0830	"	1007.6	945.1	-0.3	26.2	22.8	21.2	25.4	74	+1	4.2	+1.5	11.3	0	1	28	0	0	2	0	0	2	23	2	2	0		
Vidarbha	1130	"	1006.1	944.7	...	32.1	23.3	18.9	22.1	47	...	3.6	...	11.0	0	3	26	2	4	1	0	0	0	15	7	2	0		
Vidarbha	1730	"	1002.6	941.3	...	31.2</td																							

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—MAY, 1958 (VAISAKHA 11—JYAISTA 10, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars		Mean temperature in °C			Vapour pressure in mb.	Relative humidity %	Cloud amount (Octas)	Wind speed (km. p.h.)	No. of observations																	
			At mean sea level or height in q.r.m. of the nearest standard isobaric level		At station level	Departure from normal	Dry bulb					At 5	6	7	8	9	10	11	12	Mean amount	Departure from normal	Mean wind speed km. per hour	62 or more	20 to 61	1 to 19	N	NE	E	SE	S	SW	W	NW	Calm	Variable
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
Vidarbha (Contd.) Nagpur—Contd.	0830	310	1004.2	970.6	+0.1	34.7	25.6	20.6	25.2	47	+17	3.2	+1.1	11.6	0	4	26	4	2	0	2	4	11	2	5	1	0	0	
	1130	"	1003.0	969.9	...	40.2	26.8	19.4	24.0	33	...	2.6	...	10.7	0	5	25	6	4	1	1	1	5	3	8	1	1	1	
	1730	"	998.3	965.5	...	41.5	27.5	19.9	25.1	31	...	4.7	...	7.4	0	1	27	5	1	2	3	3	1	8	5	3	0	0	
	2330	"	1002.2	968.5	...	33.7	24.5	19.5	23.7	45	...	3.5	...	9.2	0	3	22	2	2	0	3	9	4	1	4	6	0	0	
Gondia . . .	0830	113	1004.7	970.6	...	32.8	22.9	17.1	19.6	41	...	2.5	...	5.3	0	0	29	0	1	0	2	6	12	1	1	2	6	0	
	1730	"	998.6	965.6	...	41.0	22.3	8.8	12.1	16	...	2.3	...	4.1	0	0	27	2	1	0	2	0	11	2	8	4	1	0	
Brahmapuri . . .	0830	229	1005.4	980.3	...	32.1	23.3	18.2	21.4	46	...	3.1	...	11.8	0	2	29	2	1	0	0	6	2	18	1	1	0	0	
	1730	"	999.3	975.0	...	41.3	24.9	14.7	18.0	25	...	3.5	...	6.3	0	0	29	6	3	1	2	6	5	2	4	2	0		
Chanda . . .	0830	193	1005.0	983.8	+0.1	33.8	25.2	21.0	25.0	48	+15	4.5	+2.5	8.9	0	2	28	1	2	2	4	8	7	3	3	1	0		
	1730	"	999.1	978.6	...	40.8	25.3	16.1	19.5	26	...	4.5	...	7.6	0	0	31	3	1	3	7	6	2	3	6	0	0		
Sironcha . . .	0830	123	1006.3	992.5	...	32.9	24.7	21.2	24.3	53	...	4.4	...	8.1	0	0	30	0	0	0	12	14	1	2	1	1	0		
Coastal Andhra Pradesh Nellore . . .	1730	"	1000.0	986.8	...	40.4	24.9	16.3	18.7	26	...	3.9	...	6.6	0	0	28	5	2	2	4	7	4	2	2	3	0		
	0530	20	1004.7	1002.4	...	28.2	25.4	24.2	30.2	80	...	5.0	...	3.8	0	0	27	2	2	0	15	1	1	3	3	4	0		
	0830	"	1006.5	1004.3	+0.5	32.6	26.6	24.0	29.7	61	+1	4.3	+0.5	6.1	0	0	30	0	3	3	9	4	2	8	1	1	0		
	1130	"	1005.7	1003.5	...	36.9	26.4	21.4	25.7	42	...	4.3	...	6.2	0	0	30	1	2	3	8	2	7	5	2	1	0		
	1730	"	1002.6	1000.4	...	33.6	26.7	23.8	29.3	57	...	4.5	...	10.5	0	0	31	0	2	16	13	0	0	0	0	0	0		
	2330	"	1005.9	1003.7	...	29.7	26.1	24.4	30.9	74	...	2.6	...	9.3	0	0	28	1	0	1	17	4	2	2	1	3	0		
Ongole . . .	0830	12	1006.3	1005.0	...	33.0	30.9	30.0	40.2	84	...	3.3	...	2.4	0	0	12	2	0	0	8	0	0	1	1	19	0		
	1730	"	1002.3	1001.0	...	33.3	32.2	31.9	47.3	92	...	4.9	...	14.8	0	1	29	0	1	4	23	1	1	0	0	1	0		
Rentachintala . . .	0830	106	1006.4	994.6	...	32.0	25.7	22.6	27.7	60	+7	4.6	+0.4	3.3	0	0	23	0	0	4	4	8	0	7	0	8	0		
	1730	"	1000.9	989.6	...	38.2	25.0	18.1	20.6	32	...	5.2	...	3.4	0	0	22	0	2	8	1	7	2	2	0	9	0		
Gannavaram . . .	0230	24	1004.2	1001.5	...	28.6	26.0	24.7	31.8	80	...	2.5	...	3.1	0	0	15	0	0	1	4	6	3	1	0	16	0		
	0530	"	1004.7	1002.1	...	28.3	25.6	24.2	30.5	79	...	4.4	...	3.7	0	2	10	0	0	4	3	3	0	1	1	19	0		
	0830	"	1006.4	1003.9	...	31.7	26.6	24.2	30.6	66	...	3.9	...	9.1	0	3	21	1	2	2	3	11	2	2	1	7	0		
	1130	"	1005.4	1002.9	...	36.1	26.4	21.7	27.2	45	...	3.2	...	9.3	0	1	26	0	1	3	8	7	3	2	3	4	0		
	1730	"	1001.9	999.4	...	36.7	25.8	20.5	24.2	41	...	3.9	...	13.7	0	7	22	1	0	3	10	12	2	1	0	2	0		
	2330	"	1005.4	1002.8	...	29.9	25.8	24.0	29.8	71	...	2.5	...	6.9	0	0	27	0	0	0	8	13	3	3	0	4	0		
Masulipatam . . .	0530	3	1004.7	1004.4	...	28.4	26.4	25.4	32.9	85	...	4.3	...	7.2	0	0	24	1	1	0	3	12	5	0	2	7	0		
	0830	"	1006.5	1006.2	+0.5	31.7	27.3	25.6	32.8	70	-2	3.9	+0.2	8.1	0	0	25	2	0	1	5	8	4	2	3	6	0		
	1130	"	1005.9	1005.6	...	35.2	27.6	24.5	30.7	54	...	4.3	...	11.9	0	2	28	1	0	5	10	9	3	0	2	1	0		
	1730	"	1002.9	1002.6	...	32.6	27.4	25.2	32.4	66	...	4.2	...	17.9	0	7	24	0	0	0	12	15	4	0	0	0	0		
	2330	"	1005.3	1005.0	...	29.7	26.9	25.8	33.3	80	...	4.9	...	9.9	0	1	27	0	0	1	10	14	3	0	0	3	0		
Nidadavolu . . .	0830	12	1006.8	1005.4	...	31.1	27.2	25.4	32.9	73	...	4.5	...	6.5	0	0	31	4	2	3	3	7	8	4	0	0	0		
	1730	"	1002.2	1000.8	...	35.6	27.2	23.5	29.3	51	...	4.8	...	10.8	0	1	30	1	0	5	0	21	1	3	0	0	0		
Kakinada . . .	0830	8	1006.7	1005.8	+0.5	33.0	27.9	25.9	33.6	67	-4	3.8	-0.6	9.8	0	0	30	0	0	2	8	0	18	0	2	1	0		
	1730	"	1003.0	1002.1	...	33.2	28.0	25.5	33.6	66	...	3.3	...	13.3	0	2	29	0	0	0	0	28	0	1	0	2	0		
Visakhapatnam . . .	0230	3	1004.4	1004.0	...	29.3	27.4	26.6	34.9	86	...	3.1	...	3.9	0	0	17	1	0	0	1	1	11	3	0	14	0		
	0530	"	1004.9	1004.5	...	28.9	26.9	26.1	34.0	85	...	5.1	...	3.3	0	0	15	0	0	0	0	0	12	2	1	16	0		
	0830	"	1006.5	1006.1	+0.7	32.5	28.0	26.2	34.1	70	-4	4.2	-0.5	10.0	0	2	28	1	0	0	0	1	0	24	2	1	1	1	
	1130	"	1005.6	1005.2	...	36.1	29.5	26.8	35.8	61	...	3.0	...	17.6	0	16	15	0	0	0	1	4	3	21	1	1	0	0	
	1730	"	1003.4	1003.0	...	32.2	28.8	27.5	36.7	77	...	5.0	...	14.4	0	5	26	0	0	0	0	6	5	19	0	1	1	0	
	2330	"	1005.6	1005.2	...	30.0	27.8	26.9	35.5	84	...	3.4	...	7.9	0	1	25	0	0	0	0	0							

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—MAY, 1958 (VAISAKHA 11—JYAISTHA 10, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Cloud amount (Oktas)			Wind speed (km. p.h.)			No. of observations															
			At mean sea level or height in g.p.m. of the nearest standard isobaric level			At station level			Departure from normal			Vapour pressure in mbs.			Relative humidity %			Mean amount			Wind direction									
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Telangana—Contd.																														
Hakimpet—Contd.	1130	613	1003.9	938.8	...	34.7	22.5	15.7	18.1	34	...	3.6	...	7.6	0	5	25	5	2	0	1	3	6	6	7	1	0			
	1730	"	1000.3	935.8	...	35.8	22.0	14.1	16.1	28	...	5.2	...	13.3	0	6	22	5	5	4	6	2	3	0	3	3	0			
Hanamkonda	0830	269	1006.1	976.7	+0.7	31.4	25.8	23.2	28.7	63	+16	2.1	-0.9	10.2	0	0	31	0	0	0	9	14	2	4	2	0	0			
	1730	"	1000.7	972.1	...	39.6	25.6	18.4	21.4	31	...	2.9	...	5.1	0	0	30	4	1	3	8	10	1	0	3	1	0			
Bhadrachall m	0830	111	1006.7	994.5	...	31.8	25.8	23.2	28.3	61	...	5.0	...	8.5	0	0	31	1	3	3	8	2	6	5	3	0	0			
	1730	"	1000.9	988.9	...	38.3	25.3	18.5	21.7	33	...	4.9	...	8.2	0	2	26	0	2	1	15	4	1	1	4	3	0			
Khammameth	0830	112	1006.5	994.1	...	31.7	26.0	23.6	29.6	65	...	4.5	...	6.2	0	0	29	3	0	3	11	5	5	1	1	2	0			
	1730	"	1000.8	988.8	...	39.2	26.2	19.9	23.3	33	...	4.2	...	4.3	0	0	22	1	0	4	9	4	2	2	0	9	0			
Rayalaseema																														
Arogavaram	0830	701	1006.7	930.9	...	27.5	22.4	19.9	22.8	64	...	6.2	...	6.1	0	0	30	1	1	1	2	3	2	2	18	1	0			
	1730	"	1001.4	927.1	...	32.3	22.2	16.8	20.0	42	...	6.9	...	8.0	0	0	31	6	8	4	3	1	1	7	0	0				
Cuddapah	0830	130	1006.8	992.4	-0.3	32.5	27.7	25.6	33.2	68	+14	3.3	+0.1	4.1	0	0	19	2	0	2	0	0	0	10	5	12	0			
	1730	"	1001.5	987.4	...	38.5	30.6	27.5	38.4	57	...	4.0	...	7.2	0	0	22	1	6	7	2	0	0	2	4	9	0			
Anantapur	0530	350	1005.0	966.2	...	26.3	22.9	21.1	25.2	74	...	4.9	...	7.5	0	2	20	0	0	2	0	2	5	10	3	9	0			
	0830	"	1006.6	968.0	...	29.0	23.9	21.3	25.5	64	...	5.5	...	10.5	0	2	27	0	0	0	1	4	6	17	1	2	0			
	1130	"	1005.3	967.4	...	33.7	24.3	19.1	22.7	44	...	5.0	...	10.7	0	2	27	3	1	0	2	1	0	10	12	2	0			
	1730	"	1000.6	963.1	...	36.3	23.8	16.6	19.2	33	...	5.4	...	7.7	0	1	25	5	4	4	1	1	1	5	5	5	0			
Kurnool	0830	281	1006.6	975.6	-0.2	30.3	24.9	22.5	27.4	63	+8	4.6	+1.5	16.8	0	8	19	2	0	2	4	2	2	10	5	4	0			
	1730	"	1000.4	970.3	...	38.2	25.0	18.0	20.8	32	...	5.0	...	12.3	0	4	26	5	5	6	2	1	1	5	5	1	0			
Madras State																														
Palayamcottai	0830	51	1007.6	1001.9	...	30.3	25.0	22.6	27.4	65	...	5.1	...	4.9	0	0	30	4	4	1	1	4	2	8	6	1	0			
	1730	"	1004.3	998.6	...	32.2	25.2	21.9	26.2	57	...	6.3	...	10.1	0	0	31	0	1	1	2	3	5	16	3	0				
Tuticorin	0830	4	1007.9	1007.5	...	30.2	25.8	23.8	29.6	69	...	4.9	...	8.3	0	0	30	2	2	1	0	2	9	11	3	1	0			
	1730	"	1004.4	1004.0	...	32.0	26.9	24.8	31.2	67	...	5.0	...	17.8	0	9	22	1	1	2	7	9	4	5	2	0				
Pamban	0830	11	1007.7	1006.4	-0.2	29.5	26.7	25.4	32.8	79	+1	4.4	+1.7	8.6	0	1	25	0	1	0	5	3	13	3	1	5	0			
	1730	"	1004.9	1003.6	...	30.1	26.9	25.6	33.0	77	...	6.1	...	13.1	0	4	25	0	1	0	9	14	4	0	1	2	0			
Mathurai	0830	133	1007.2	993.4	+0.4	29.6	25.5	23.5	29.3	71	+8	4.5	+0.2	3.0	0	0	31	0	7	0	1	0	3	0	20	0	0			
	1730	"	1003.6	989.1	...	32.7	26.6	24.1	30.0	62	...	6.1	...	3.0	0	0	31	0	6	7	4	6	0	4	4	0	0			
Nagapattinam	0830	9	1007.4	1006.3	-0.2	29.9	26.5	25.1	30.7	76	+7	5.5	+1.7	10.3	0	1	30	1	2	0	2	2	13	9	2	0	0			
	1730	"	1004.1	1003.0	...	31.5	27.5	25.9	33.4	73	...	5.0	...	15.9	0	7	23	1	1	4	10	9	4	1	0	1	0			
Tiruchirappalli	0230	88	1005.4	995.5	...	27.3	24.9	23.8	29.5	82	...	4.3	...	8.6	0	2	20	0	0	0	1	2	1	14	4	9	0			
	0530	"	1005.7	995.7	...	26.6	24.5	23.6	28.8	84	...	5.2	...	8.9	0	2	24	0	0	0	0	2	0	17	7	5	0			
	0830	"	1007.4	997.5	-0.5	29.0	25.2	23.5	28.9	73	+8	5.1	+1.7	12.7	0	3	27	1	0	0	0	3	0	21	5	1	0			
	1130	"	1006.7	996.9	...	32.6	26.0	23.0	28.5	57	...	5.6	...	16.0	0	9	21	0	0	3	0	1	5	15	6	1	0			
	1730	"	1003.4	993.7	...	32.8	25.8	22.6	27.5	57	...	6.6	...	16.6	0	9	21	4	0	2	6	5	4	5	4	1	0			
	2330	"	1007.2	997.3	...	28.1	25.6	24.6	30.7	82	...	5.0	...	9.7	0	1	27	0	0	1	2	5	12	7	1	3	0			
Coimbatore	0830	409	1007.8	962.6	-0.3	26.6	23.5	22.1	26.6	76	-2	5.9	+2.5	12.9	0	0	31	1	0	0	0	13	16	1	0	0	0	0		
	1730	"	1003.9	959.1	...	29.4	24.8	22.8	27.2	67	...	6.7	...	15.8	0	7	24	1	0	0	1	13	14	1	1	0	0	0		
Coimbatore (Peelamedu Aerodrome)	0530	398	1006.3	961.7	...	23.5	22.8	22.5	27.2	94	...	6.0	...	12.7	0	3	27	0	0	1	2	11	13	2	1	1	0	0		
	0830	"	1007.5	963.3	...	26.3	23.9	23.0	27.7	82	...	5																		

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—MAY, 1958 (VAISAKHA 11—JYAISTA 10, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Cloud amount (Octas)			Wind speed (km. p.h.)			No. of observations														
			At mean sea level or height in g.i.m. of nearest standard isobaric level	At station level	Departure from normal	Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Mean amount	Departure from normal	Mean wind speed, km. per hour	62 or more	20 to 61	1 to 19	N	NE	E	SE	S	SW	W	NW	Calm	Variable		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
Madras State—Contd. Vellore—Contd.	1730	214	1002.3	979.2	...	34.1	24.3	19.9	23.7	47	...	6.3	...	8.8	0	2	28	1	8	3	6	4	6	2	0	1	0		
	2330	"	1006.6	982.8	...	28.5	24.4	22.5	27.4	71	...	4.5	...	6.0	0	0	0	25	1	1	0	6	8	4	2	3	6	0	
Madras	0230	16	1004.8	1003.1	...	28.7	26.2	25.2	31.9	82	...	3.7	...	5.0	0	0	0	20	0	1	1	2	9	3	2	2	11	0	
	0530	"	1005.2	1003.5	...	28.3	26.1	25.2	32.0	85	...	5.0	...	5.4	0	0	0	19	0	0	0	0	0	11	4	2	2	12	0
	0830	"	1007.1	1005.3	+0.4	30.3	26.4	24.7	31.2	73	+13	5.0	+1.6	7.9	0	0	0	30	3	0	0	0	0	14	10	3	0	0	0
	1130	"	1006.2	1004.5	...	34.7	26.9	23.5	29.1	54	...	5.1	...	9.3	0	1	29	2	0	1	3	5	8	9	2	1	0	0	0
	1730	"	1003.5	1001.9	...	32.4	27.3	25.2	33.9	67	...	5.0	...	14.7	0	4	27	2	0	6	16	5	i	0	1	0	0	0	0
	2330	"	1006.5	1004.8	...	29.5	27.0	25.9	33.5	81	...	4.0	...	11.5	0	3	27	0	1	0	11	12	3	2	1	1	0	0	0
Madras (Nungambakkam)	0830	6	1006.6	1006.0	...	30.7	26.5	24.7	31.2	71	...	4.6	...	6.9	0	0	0	29	0	0	0	1	10	15	3	0	2	0	0
Coastal Mysore Karwar	0830	4	1008.4	1008.0	-0.6	28.4	25.8	24.7	31.3	80	...	6.5	...	2.9	0	0	0	22	2	5	4	0	1	0	2	3	9	5	
	1730	"	1005.6	1005.2	...	30.4	27.1	25.7	33.4	76	...	6.4	...	10.8	0	4	24	2	0	1	1	1	0	11	12	3	0	0	0
Honavar	0830	26	1008.5	1005.6	-0.4	27.6	25.4	24.5	30.7	84	+3	7.3	+1.9	1.0	0	0	0	6	0	0	2	0	0	0	3	1	25	0	
Mangalore	023	22	1006.7	1004.1	...	27.5	25.6	24.7	31.1	85	...	5.3	...	7.2	0	1	22	6	2	8	2	2	0	0	0	3	8	0	
	0530	"	1006.8	1004.3	...	26.8	25.1	24.4	30.4	87	...	6.1	...	9.8	0	1	30	4	7	10	3	1	1	4	0	0	0	0	
	0830	"	1008.6	1006.1	-0.9	28.3	25.7	24.5	30.8	80	+6	6.2	+1.3	6.0	0	0	0	25	5	1	4	7	1	1	2	4	6	0	
	1130	"	1008.6	1006.2	...	30.3	26.3	24.5	30.9	71	...	6.0	...	10.5	0	1	29	1	0	0	1	2	2	8	16	1	0	0	
	1730	"	1005.9	1003.4	...	30.1	26.2	24.5	30.8	72	...	7.0	...	13.5	0	4	26	2	0	0	0	2	1	1	7	17	1	0	0
	2330	"	1008.4	1005.9	...	28.1	25.9	25.0	31.6	83	...	6.3	...	9.1	0	1	27	7	1	7	2	1	0	0	0	10	3	0	
Mangalore (Bajpe Aerodrome)	0530	103	1007.0	995.4	...	25.6	24.4	23.9	29.7	90	...	6.6	...	2.1	0	0	11	1	0	7	0	2	1	0	0	0	5	0	
	0830	"	1008.8	997.2	...	27.7	25.3	24.3	29.8	82	...	6.4	...	7.5	0	0	26	4	2	14	5	1	0	0	0	0	5	0	
	1730	"	1006.1	994.6	...	29.0	25.6	24.1	30.6	75	...	6.2	...	13.1	0	1	29	1	0	0	0	2	1	14	12	1	0	0	
Mysore (North) Bidar	0830	664	1005.4	933.8	...	29.5	21.2	16.4	18.3	47	0	4.3	+1.9	14.9	0	4	27	4	0	0	0	4	7	8	0	0	0	0	
	1730	"	999.4	929.7	...	36.2	21.2	11.7	12.8	16	...	6.7	...	11.3	0	2	29	6	10	4	4	2	2	0	3	0	0	0	
Gulbarga	0830	458	1006.2	956.2	-0.2	30.2	22.9	19.2	22.7	54	+3	5.4	+3.3	13.0	0	3	28	3	2	1	0	3	2	8	12	0	0	0	
	1730	"	1000.2	951.4	...	36.0	22.2	13.7	16.5	33	...	7.5	...	15.6	0	8	21	8	3	3	3	4	4	1	3	2	8	0	
Bijapur	0830	594	1006.8	942.0	-0.5	27.3	23.5	21.7	26.1	72	+13	7.1	+4.7	8.5	0	0	31	4	1	0	0	0	2	4	11	9	0	0	
	1730	"	1000.2	937.3	...	35.0	24.3	19.0	22.6	45	...	6.0	...	6.9	0	0	29	7	2	2	2	4	4	4	2	0	0		
Belgaum	0830	781	1008.5	923.4	0	24.0	21.7	20.6	24.7	82	+7	...	...	3.0	0	0	16	2	1	0	1	5	4	3	0	15	0	
	1730	"	1005.9	922.0	...	27.6	23.3	21.3	25.6	69	...	...	...	6.0	0	0	28	2	0	0	1	2	10	13	0	3	0	
Belgaum (C. T. O.)	0830	753	1008.1	926.0	-0.5	24.5	21.9	20.8	24.5	79	+3	4.4	+1.2	5.0	0	0	28	2	1	2	1	0	2	15	5	3	0		
	1730	"	1003.6	922.9	...	28.3	23.6	21.5	25.7	67	...	5.9	...	13.0	0	0	31	1	0	0	0	0	0	4	24	2	0	0	
Belgaum (Sampre Aerodrome)	0530	761	1006.9	923.4	...	21.8	20.8	20.2	23.8	91	...	5.7	...	6.4	0	1	19	0	0	0	1	1	2	14	2	2	11	0	
	0830	"	1007.9	925.0	...	24.6	21.9	20.7	23.0	79	...	5.5	...	9.3	0	0	27	0	0	0	0	0	0	1	24	2	4	0	
	1130	"	1006.4	924.9	...	29.6	23.1	19.9	23.2	57	...	4.9	...	12.1	0	3	22	1	1	1	0	1	1	0	15	2	6	1	
	1730	"	1003.3	921.7	...	28.6	23.4	21.0	25.1	67	...	5.7	...	18.0	0	6	24	1	1	1	1	0	1	1	2	21	3	1	0
Gadag	0830	650	1007.8	936.7	-0.1	25.7	22.5	21.2	25.4	76	+2	4.6	+1.6	7.6	0	0	30	1	0	0	1	2	18	0	5	0	5	0	
	1730	"	1002.4	932.9	...	31.1	22.7	18.3	20.2	53	...	5.8	...	6.6	0	0	26	0	0	0	3	0	2	18	0	5	0	2	0
Gadag (P. B. O.)	0530	661	1006.1	933.5	...	23.6	22.2	21.6	25.8	89	...	5.6	...	11.7	0	3	26	0	1	1	0	0	0	10	16	1	2	0	
	0830	"	1006.8	935.3	...	25.8	23.1	22.1	26.3	80	...	4.3	...	9.4	0	2	25	1	0	0	0	0	0	6	20	0	4	0	
	1130	"	1006.1	935.1	...	30.3	23.9	21.5	25.1	60	...	3.7	...	9.5	0	0	24	0	0	1	2	0	3	1	1	7	0		
	1730	"	1002.1	931.5	...	31.1	23.2	19.9	22.7	55	...	5.6	...	10.1	0	0	26	2	0	3	1	1	0	8	8	3	5	0	
	2330	"	1007.2	934.9	...	25.1	22.8	22.0	26.2	83	...	5.0	...	15.1	0	4													

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—MAY, 1958 (VAISAKHA 11—JYAISTHA 10, 1880 SAKA)

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—MAY, 1958 (VAISAKHA 11—JYAIESTHA 10, 1880 SAKA)

Division and station	Hour of observation I.S.T.			Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mb.			Cloud amount (Oktas)			Wind speed (km. p.h.)			No. of observations												
	2	3	4	At station level			Departure from normal			Relative humidity %			Mean amount			Departure from normal			Mean wind speed, km. per hour			Wind direction									
				At mean sea level or height in g.p.m. of nearest standard isobaric level	Dry bulb	Wet bulb	Dew point	Vapour pressure in mb.	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	Calm	Variable			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28				
Hill Stations excluding Kashmir—Contd.																															
Katmandu . . .	0830	1337	1489.6	865.0	...	23.7	17.4	13.3	15.1	53	-14	1.7	-2.8	0.5	0	0	5	2	0	1	0	0	0	1	1	26	0				
Mukteswar (Kumaon)	0830	2311	3145.1	772.1	+0.3	18.1	9.5	0.2	6.1	32	-13	0.7	-1.3	12.4	0	3	25	0	2	2	0	0	2	12	10	3	0				
Nainital . . .	0830	1953	1458.2	803.5	...	21.6	12.3	3.6	8.2	33	...	1.4	...	6.5	0	2	22	3	4	1	5	0	1	3	2	7	0				
Tapovan . . .	0830	...	...	...	...	15.7	...	...	...	...	...	1.8	...	8.6	0	0	31	13	1	5	3	4	1	4	0	0	0	
Badrinath . . .	0830	...	...	...	...	Closed during winter months	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Lokpal . . .	0830	...	...	...	...	-0.6	-1.7	-3.3	4.8	82	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mussoorie . . .	0830	2042	1454.8	794.8	-2.0	20.8	13.3	7.6	10.2	43	-2	1.4	-0.8	1.6	0	0	13	3	2	0	2	3	2	0	1	18	0				
Simla . . .	0830	2202	1461.7	781.4	+0.9	19.7	9.5	-3.4	5.0	23	-12	2.4	+0.3	2.9	0	0	28	4	6	5	5	3	2	0	3	3	0				
Dalhousie . . .	0830	1959	1422.1	798.6	...	18.9	10.6	2.6	7.8	36	...	0.7	...	0.7	0	0	3	1	2	0	0	0	0	0	0	28	0				
Eharan shala . . .	0830	1211	1504.0	879.0	...	24.9	15.0	6.6	9.8	32	...	2.5	...	3.4	0	1	24	5	14	1	1	1	1	0	2	6	0				
Abu . . .	0830	1195	1500.6	879.3	+0.1	26.9	18.1	9.7	13.2	42	+6	0	-0.8	4.8	0	0	26	1	1	0	0	0	5	10	7	2	5	0			
Pachmarhi	0830	1075	1499.5	891.7	+0.2	29.8	17.5	7.9	11.1	28	-7	1.9	-0.1	7.9	0	0	31	4	3	1	1	1	1	7	13	0	0				
Mahabaleswar	0830	1382	1502.9	862.0	+0.1	22.8	17.1	12.8	15.4	56	+3	3.8	+0.9	11.7	0	2	28	11	12	1	0	0	0	2	4	1	0				
Nandi Hills . . .	0830	...	...	...	...	23.4	18.7	15.9	18.1	64	...	5.8	...	...	...	...	0	0	0	0	0	0	0	4	25	0	0	
Merbara . . .	0830	1152	1502.3	885.0	+0.1	20.8	19.9	19.4	21.5	92	+8	5.3	+0.2	6.4	0	0	30	0	1	1	0	0	1	1	14	11	1	1			
Kodaikanal . . .	0530	2343	3133.1	769.5	...	13.3	12.2	11.4	13.5	89	...	7.2	...	4.7	0	1	21	9	1	1	0	2	2	0	7	9	0				
Dotacamund . . .	0830	2249	1496.9	779.2	-0.1	16.0	13.7	12.2	14.1	81	+17	4.1	+0.2	1.2	0	0	5	0	3	0	0	1	1	0	0	26	0				
Coonoor . . .	0830	1747	1499.3	826.5	..	20.6	16.8	14.6	16.5	69	+12	4.0	-0.2	1.8	0	0	15	2	1	0	8	3	0	0	1	16	0				
Sikkim Lachen† . . .	0830			
Tibet																															
Yatung (Chun-ku)	0830	10.8	10.0	9.3	11.8	92	+9	0	-3.6			
Lhassa . . .	0830	3685	3057.0	650.9	...	13.9	8.5	3.5	7.9	52	...	2.7	...	4.7	0	0	26	0	2	2	7	0	8	2	5	5	0				
Ceylon Colombo . . .	0830	7	1009.0	1008.2	-0.8	27.7	25.5	24.6	30.8	84	-1	6.7	+0.8	8.6	0	3	27	1	3	5	6	3	5	6	1	1	0				
Trincomalee . . .	0830	3	1007.6	1007.2	+0.1	28.9	25.7	24.1	30.0	75	-4	4.5	+1.1	15.7	0	1	22	0	0	0	0	2	28	1	0	0	0				
Batticaloa . . .	0830	3	1007.9	1007.6	..	31.0	26.6	24.4	30.6	68	...	5.7	...	9.2	0	11	20	1	3	2	5	1	16	2	1	0	0				
Hambantota	0830	15	1008.7	1007.0	+0.1	28.2	26.0	25.1	31.8	83	-3	4.6	+0.7	14.6	0	12	16	1	1	0	0	0	18	8	0	3	0				
Mauritius . . .	0830	4	1007.9	1007.5	..	29.2	26.6	25.3	32.4	80	...	6.1	...	12.2	0	4	27	1	0	0	0	6	9	13	1	1	0	0			
Hydrometeorological observatories Damodar Catchment Bokaro . . .	0830	242	1002.2	976.1	..	34.6	22.8	15.1	18.9	34	...	1.7	...	(a) 8.7	0	1	29	1	1	0	3	0	13	7	4	0	1				
Hazaribagh . . .	0830	615	1003.4	937.8	..	32.9	21.5	12.9	16.3	35	...	1.3	...	7.8	0	0	28	1	0	1	0	0	9	7	10	3	0				
Tilaiya . . .	0830	...	...	...	...	35.9	20.5	6.9	11.6	23	...	1.4	...	11.6	0	0	31	1	1	0	0	0	5	7	17	0	0	
	1730	...	...	...	...	34.3	21.0	11.0	13.8	28	...	2.0	...	9.9	0	0	30	0	0	4	3	0	1	10	6	1	6	
	1730	...	...	...	...	38.4	20.0	4.8	8.5	14	...	2.5	...	16.0	0	6	25	3	1	1	2	0	0	7	14	0	3	

(e) Mean of 26 days.

†Data not reliable.

(a) Mean of 30 days.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—MAY, 1958 (VAISAKHA 11—JYAI STA 10, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Mean pressure in millibars																		No. of observations																	
		At mean sea level or height in g.p.m. of nearest standard isobaric level						Mean temperature in °C						Cloud amount (Oktas)						Wind speed (km. p.h.)						Wind direction											
		At station level	Departure from normal	Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Mean amount	Departure from normal	Mean km. per hour	Wind speed	N	NE	E	SE	S	SW	W	NW	Calm	Variable														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28										
Hydrometeorological Observatories—Contd. Damodar Catchment Kamgarh—Contd.	*0830	...	...	...	...	34.3	22.9	15.6	18.6	36	...	3.6	...	4.7	0	0	28	0	0	4	3	1	0	16	4	1	0						
	†1730	...	...	...	...	38.3	22.1	9.9	13.4	23	...	4.7	...	5.3	0	0	28	0	1	3	2	0	2	8	12	0	0						
Panchet Hills	0830	...	...	...	...	34.5	24.5	18.8	22.6	44	...	2.0	...	5.0	0	0	31	0	1	5	2	3	18	1	1	0	0						
	1730	...	...	...	...	37.3	23.5	14.4	17.7	31	...	3.9	...	9.5	0	3	27	2	2	5	8	0	7	2	4	1	0						
Durgapur	0830	...	...	...	...	33.5	25.6	21.4	26.2	53	...	2.2	...	19.7	0	11	20	1	2	1	1	15	4	7	0	0							
	1730	...	...	...	...	36.8	24.3	16.1	20.1	37	...	1.9	...	24.7	0	13	18	1	2	1	1	15	3	2	6	0	0						
Mahanadi Catchment Baramul	0830	64	1005.1	998.3	...	31.7	27.3	25.6	32.7	70	...	3.5	...	2.8	0	0	12	0	2	0	0	0	9	1	0	19	0										
	1730	”	1000.5	993.5	...	35.9	28.5	25.4	33.0	56	...	4.3	...	4.0	0	0	14	0	1	0	0	0	11	0	2	17	0										
Hirakud	0830	159	1004.9	987.4	...	33.5	25.7	22.1	26.5	52	...	2.1	...	4.7	0	1	26	0	0	0	1	10	11	4	1	4	0										
	1730	”	999.3	982.4	...	39.1	25.9	19.4	22.6	33	...	2.6	...	4.0	0	0	21	0	1	0	2	5	6	7	0	10	0										
Khij awan	(b)	0830	...	...	...	33.2	23.6	17.3	20.9	40	...	0.8	...	...	...	...	...	0	3	0	5	5	10	6	0	0	0		
	(b)	1730	...	...	...	36.0	22.5	13.9	16.3	28	...	3.1	...	7.8	0	2	23	0	2	0	0	6	14	2	1	6	0							
Sonepur	0830	...	...	...	...	35.0	24.8	19.7	22.9	43	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	1730	...	...	...	...	32.1	21.9	15.5	18.0	39	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bhimkund	0830	...	...	...	...	30.7	25.4	22.8	26.6	65	...	7.2	...	5.7	0	0	29	3	1	0	7	3	10	1	4	2	0						
	1730	...	...	...	...	35.2	23.7	16.7	19.9	38	...	7.4	...	9.2	0	1	30	2	0	0	5	10	4	2	8	0	0						
Nerbada Catchment Punasa	0830	...	...	...	...	33.7	22.5	15.4	18.2	36	...	3.6	...	2.3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	1730	...	...	...	...	41.2	23.3	11.3	14.1	19	...	4.4	...	1.9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bagra Tawa	0830	...	...	...	...	33.5	20.1	10.1	12.5	26	...	1.4	...	6.3	0	0	26	0	1	0	0	4	8	12	1	5	0						
	1730	...	...	...	...	40.5	22.5	9.2	12.5	17	...	1.4	...	5.4	0	0	27	2	0	0	0	0	11	8	6	4	0						
Thikri	0830	...	...	...	...	31.9	25.6	23.1	27.6	59	...	1.2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	1730	...	...	...	...	30.2	29.8	29.4	41.6	98	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sabarmati Catchment Jhadol	0830	...	...	...	...	30.2	29.8	29.4	41.6	98	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	1730	...	...	...	...	30.2	21.6	16.1	18.7	43	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ganga Catchment Mukhimpur	0830	...	...	...	...	20.0	11.5	4.1	8.2	35	...	1.5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	1730	...	...	...	...	21.8	11.7	2.5	7.3	30	...	3.7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tehri	0830	...	...	...	...	24.1	16.7	11.2	14.2	47	...	1.2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	1730	...	...	...	...	33.1	18.5	7.2	10.7	24	...	2.6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Gandak Catchment Gorkha	0830	...	...	...	...	23.6	18.1	14.7	16.6	57	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	1730	...	...	...	...	27.1	18.4	12.8	15.0	42	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pokhara	0830	...	...	...	...	25.1	19.7	16.4	19.1	59	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	1730	...	...	...	...	25.5	20.1	17.2	19.6	60	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Nawakot	0830	...	...	...	...	26.4	19.8	15.8	18.2	53	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	1730	...	...	...	...	29.5	19.3	13.0	15.0	36	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Jomosom	0830	...	...	...	...	15.9	8.8	2.7	7.4	41	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	1730	...	...	...	...	15.1	9.1	4.1	8.2	48	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Timure	0830	...	...	...	...	21.5	13.3	6.7	10.0	39	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	1730	...	...	...	...	22.6	13.1	5.3	9.0	33	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Gogra Catchment (Trans Region), Dailkh	0830	23.6 (a)	15.1	8.2	10.9	37							
	1730	...	...	...	...	26.8	15.6	6.2	9.6	27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Gogra Catchment Dandeli Jhura	0830	20.7 (c)	17.0	14.9	17.1	69							
	1730	...	...	...	...	22.8	19.1	17.2	19.8	72	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Salliana	(R)	0830						
	(R)	1730						
Butwal	0830	...	...	...	...	31.7	22.4</td																										

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—MAY, 1958 (VAISAKHA 11—JYAISSHA 10, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer, eastern sea level in metres	Mean pressure in millibars		Mean temperature in °C			Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas)	Wind speed (km.p.h.)	No. of observations															
			At mean sea level or height in g.p.m. of nearest standard isobaric level		At station level	Departure from normal	Dry bulb						N		NE	E	SE	S	SW	W	NW	Calm	Variable					
			At station level	Departure from normal	At station level	Departure from normal	At station level						At station level	At station level	At station level	At station level	At station level	At station level	At station level	At station level	At station level	At station level						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
Hydrometeorological Observatories—Contd.																												
Kosi Catchment																												
Chautara . . .	0830	...	...	...	...	...	21.6	16.4	13.6	15.3	60	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	1730	...	...	...	...	...	25.2	16.7	11.5	13.4	41	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Okhaldhunga . . .	0830	...	...	...	...	...	21.2	13.3	13.6	15.6	63	...	4.3	...	1.1	0	0	0	0	1	3	5	1	20	0	
	1130	23.5	16.8	12.7	14.9	53	...	4.9	...	2.8	0	0	24	0	0	0	1	8	11	4	7	0	
	1730	20.7	15.8	12.7	14.8	61	...	5.5	...	5.0	0	0	29	0	0	0	0	12	14	2	2	1	
Barahkshetra . . .	0830	146	1005.0	988.7	...	29.0	23.2	20.1	24.5	60	...	2.4	...	5.3	0	0	23	1	0	1	1	0	10	9	1	8	0	
	1130	"	1003.7	987.6	...	32.2	25.2	21.8	27.0	55	...	3.5	...	16.8	0	6	25	0	0	0	0	0	14	16	1	0	0	
	1730	"	1000.2	984.8	...	31.6	24.7	21.5	26.0	56	...	3.6	...	6.8	0	0	23	0	1	0	0	0	1	10	11	0	8	0
Angbung . . .	0830	...	...	...	...	20.9	18.7	17.6	20.0	81	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Taplejung . . .	0830	...	...	...	...	19.9	16.2	13.9	16.0	69	...	4.2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	1130	...	...	...	...	22.4	17.0	14.1	15.8	60	...	4.4	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	1730	...	...	...	...	19.6	15.9	13.8	14.6	70	...	5.6	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Taplethok . . .	0830	...	...	...	...	21.2	18.1	16.1	18.6	74	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Wallungchung Gola (R)	0830	...	...	...	...	21.2	17.2	14.6	17.3	68	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
(R) 1730						20.7	16.3	13.6	15.6	64	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bhojpur . . .	0830	...	...	...	...	23.7	19.3	16.7	19.1	65	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	1730	...	...	...	...	22.6	18.8	16.6	19.0	69	...	4.1	...	0	0	17	3	4	0	0	1	3	3	3	14	0
Chainpur . . .	0830	...	...	...	...	17.3	15.6	14.7	16.4	84	...	4.2	...	0	0	27	2	1	0	1	7	12	4	0	4	0
	1730	...	...	...	...	19.9	17.2	15.6	17.8	77	...	6.5	...	0	0	25	1	4	4	7	6	1	0	1	6	1
Tista Catchment																												
Gangtok . . .	0830	1812	1474.6	817.4	...	17.3	15.6	14.7	16.4	84	...	4.1	...	0	0	17	3	4	0	0	1	3	3	3	14	0		
	1130	"	1464.7	816.9	...	19.9	17.2	15.6	17.8	77	...	4.2	...	0	0	27	2	1	0	1	7	12	4	0	4	0		
	1730	"	1448.7	814.7	...	17.3	16.0	15.2	17.7	87	...	6.5	...	0	0	25	1	4	4	7	6	1	0	1	6	1		
Geyzing . . .	0830	...	...	...	...	19.4	17.5	16.7	18.7	83	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	1730	...	...	...	...	20.5	18.3	17.2	19.5	81	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

(R) Register not received.

MONTHLY MEANS OF UPPER WINDS
MAY 1958 (VAISAKHA 11—JYAIKTHA 10, 1880 SAKA)

During the month, observations of velocity and direction of upper winds were made at 55 stations in India. Out of these, at 43 stations all the observations were taken by means of pilot balloons and at 12 stations some observations were made by means of pilot balloons while the other observations by the radiowind method. Particulars of the stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the table overleaf. All radiowind ascents have been indicated by means of an asterisk (*) against the scheduled hours.

Data from ascents made at the scheduled time or within two hours on either side of the scheduled times of regular observations have been used for averaging.

Data upto 9.0 km. a. m. s. l. are given under Table IV and data above 9.0 km. a. m. s. l. under Table V.

In Tables IV and V :

n—represents the number of observations,

V—represents the mean wind speed in knots irrespective of direction,

v—represents the resultant mean velocity in knots,

D—represents the direction of the resultant mean wind in degrees East of North.

Mean and resultant winds are given in this publication for the following heights :

Surface, 0.15 km. a. g., 0.3, 0.6, 0.9, 1.5, 2.1, 3.0, 3.6, 4.5, 5.4, 6.0, 7.2, 9.0, 10.5, 12.0, 14.1, 16.2, 18.0, 21.0, 24.0, 27.0, 30.0, 33.0 and 36.0 km. a. m. s. l. Of these the levels 1.5, 3.0, 5.4, 7.2, 9.0, 12.0, 14.1 and 16.2 km. a. m. s. l. are considered as the best approximations to the standard pressure levels 850, 700, 500, 400, 300, 200, 150 and 100 mb. respectively.

Particulars of Pilot Balloon and Rawin Stations in India

Station	Lat. N.	Long. E	Height of Anemometer head a. m. s. l. in metres	Date of opening	Approximate times of flight (IST)			
Agartala	23°53'	91°15'	17	28th November 1951	0530	1130	1730	2330
Ahmedabad	23°04'	72°38'	61	19th May 1928	0530	1730	2330	
Amausi	26°45'	80°53'	132	20th November 1950	0530	1730	2330	
Ambala	30°23'	76°46'	279	1st April 1941	0530	1730	2330	
Amritsar	31°38"	74°52"	243	21st June 1957	0530*	1730*		
Anantapur	14°41'	77°37'	364	12th February 1946	0530	1730	2330	
Asansol	23°41'	86°59'	135	29th May 1942	0530	1130	1730	2330
Baghdogra	26°38'	88°19'	140	7th June 1953	0530	1130	1730	2330
Bairagarh	23°17'	77°21'	532	26th February 1943	0530	1730	2330	
Bamrauli	25°27'	81°44'	103	28th February 1930	0530*	1130	1730*	2330
Bangalore	12°58'	77°35'	936	19th May 1915	0530	1730	2330	
Bareilly	28°22'	79°24'	180	12th January 1943	0530	1730		
Begumpet	17°27'	78°28'	543	1st September 1929	0530	1730	2330	
Bhagalpur	25°14'	86°57'	61	29th May 1950	0530	1130	1730	
Bhubaneshwar	20°15'	85°50'	55	5th December 1942	0530	1130	1730	2330
Bhuj	23°15'	69°48'	111	14th September 1937	0530	1730	2330	
Bikaner	28°00'	73°18'	229	18th October 1946	0530	1730	2330	
Chikalthana	19°51'	75°24'	583	7th October 1951	0530	1730	2330	
Cochin†	09°56'	76°14'	3	16th March 1942	0530	1730	2330	
Darjeeling	27°03'	88°16'	2115	21st May 1956	0530	1730		
Dum Dum	22°39'	88°27'	13	14th May 1921	0530*	1130	1730*	2330
Gadag	15°25'	75°38'	650	3rd May 1943	0530	1730	2330	
Gannavaram	16°32'	80°48'	34	8th April 1942	0530	1730	2330	
Gauhati	26°05'	91°43'	51	12th March 1955	0530*	1130	1730*	2330
Gaya	24°45'	84°57'	119	19th March 1937	0530	1130	1730	2330
Gopalpur	19°16'	84°53'	24	15th February 1946	0530	1730	2330	
Gorakhpur	26°45'	83°22'	83	5th January 1943	0530	1730		
Gwalior	26°14'	78°15'	208	7th May 1938	0530	1730	2330	
Imphal	24°51'	93°58'	805	8th March 1952	0530	1130	1730	2330
Jabalpur	23°10'	79°57'	402	30th July 1928	0530	1730	2330	
Jagda'pur	19°05'	82°02'	562	25th March 1948	0530	1730	2330	
Jaipur	26°49'	75°48'	404	6th June 1953	0530	1730		
Jamshedpur	22°49'	86°11'	147	23rd July 1942	0530	1130	1730	
Jharsuguda	21°55'	84°05'	240	1st May 1944	0530	1730	2330	
Jodhpur	26°18'	73°01'	229	15th October 1934	0530*	1130	1730*	2330
Madras	13°00'	80°11'	29	8th April 1926	0530*	1130	1730*	2330
Mangalore	12°52'	74°51'	40	4th June 1928	0530	1730	2330	
Minicoy	08°18'	73°00'	16	14th April 1941	0530	1730	2330	
Mohanbari	27°29'	95°01'	112	1st June 1948	0530	1130	1730	2330
Mussoorie	30°27'	78°05'	2050	3rd November 1955	0530	1730		
Nagpur	21°06'	79°03'	316	23rd April 1943	0530*	1130	1730*	2330
Nanpara	27°56'	81°30'	142	23rd April 1957	0530	1730		
New Delhi	28°35'	77°12'	227	20th October 1936	0530*	1130	1730*	2330
Poona	18°32'	73°51'	593	5th January 1925	0530	1730	2330	
Port Blair	11°40'	92°43'	93	29th October 1945	0530*	1130	1730*	2330
Raipur	21°14'	81°39'	308	15th July 1944	0530	1730	2330	
Raxaul	26°59'	84°51"	83	28th October 1957	0530	1730		
Santa Cruz	19°07'	72°51'	14	14th May 1933	0530*	1130	1730*	2330
Tezpur	26°37'	92°47'	79	12th August 1932	0530	1130	1730	2330
Tiruchirapalli	10°46'	78°43'	96	22nd June 1936	0530	1730	2330	
Trivandrum	08°29'	76°57'	73	8th December 1928	0530*	1130	1730*	2330
Udaipur	24°35'	73°42'	587	24th June 1947	0530	1730	2330	
Vengurla	15°52'	73°38'	8	22nd November 1941	0530	1730	2330	
Veraval	20°54'	70°22'	17	13th October 1941	0530*	1130	1730*	2330
Visakhapatnam	17°43'	83°14'	10	24th September 1928	0530	1730	2330	

*Radiowind ascents.

†Naval Meteorological Office.

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9·0 Km. above mean sea level

May 1958 (VAISAKHA 11—JYAIKTHA 10, 1880 SAKA)

Station	AGARTALA												AHMEDABAD															
	0530				1130				1730				2330				0530				1730							
Time in I. S. T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D				
Ht. in Km.																												
Surface . .	27	6·1	4·3	149	31	7·8	6·8	177	31	7·3	6·4	169	31	6·9	4·4	153	31	4·7	3·8	279	31	7·2	5·5	254				
0·15 a. g. .	30	13·0	10·6	156	31	13·5	12·1	182	31	15·4	11·1	175	28	15·4	13·7	172	31	14·7	12·7	290	31	10·8	8·5	261				
0·3 a. m. s. l. .	30	17·0	16·2	182	31	13·6	12·3	184	31	17·9	14·7	178	28	18·3	16·8	181	31	16·9	14·8	290	31	11·3	8·9	262				
0·6 . .	30	19·7	19·0	189	31	15·5	13·2	187	31	19·1	15·3	181	28	20·1	18·5	186	31	18·4	16·1	297	31	11·4	10·0	264				
0·9 . .	29	19·0	17·6	206	31	17·3	15·2	194	30	18·2	15·1	205	26	17·6	15·6	200	30	16·1	14·4	295	31	12·4	11·0	269				
1·5 . .	28	18·1	15·6	232	22	16·0	13·5	219	27	13·6	9·3	237	23	15·3	11·4	233	30	11·6	9·1	275	31	12·4	11·5	270				
2·1 . .	25	16·3	13·4	254	10	19·1	15·9	225	21	15·5	11·1	282	17	16·2	12·1	277	27	9·5	7·1	268	30	11·8	11·1	270				
3·0 . .	18	20·5	18·2	278	3	22·0	10·4	216	17	18·5	15·0	288	15	20·3	18·1	291	24	10·6	5·0	265	30	12·7	11·1	278				
3·6 . .	13	25·3	23·0	273					15	22·7	18·7	300	12	20·9	18·3	300	18	12·5	7·3	290	28	12·5	10·1	286				
4·5 . .	7	20·9	19·3	287					12	21·7	18·6	282	7	13·3	10·1	273	13	12·4	7·8	320	26	13·6	9·3	294				
5·4 . .	3	13·6	10·7	247					9	22·4	21·9	273	7	12·1	8·7	249	8	15·9	12·7	286	25	15·6	11·1	297				
6·0 . .	1	19·0	19·0	225					8	25·4	23·3	275	7	16·4	11·1	274	6	20·8	17·0	300	25	20·4	15·2	296				
7·2 . .	1	22·0	22·0	245					5	22·0	20·1	284	4	21·2	14·3	273	2	19·0	16·8	330	23	27·0	22·0	292				
9·0 . .	1	30·0	30·0	255					2	25·0	25·0	260	2	16·5	15·7	214	1	37·0	37·0	010	13	38·2	29·3	291				
Station	AHMEDABAD				AMAUSI												AMBALA											
Time in I. S. T.	2330				0530				1730				2330				0530				1730							
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D				
Surface . .	31	7·6	6·1	206	31	1·7	0·5	319	31	8·0	6·5	308	31	3·2	1·3	350	31	4·2	1·4	330	31	6·8	5·7	304				
0·15 a. g. .	31	17·0	14·3	224	31	12·1	3·9	323	31	13·1	11·3	299	31	14·5	8·8	330	31	12·0	2·5	003	31	13·1	10·7	312				
0·3 a. m. s. l. .	31	19·0	16·4	228	31	12·7	4·1	324	31	13·4	11·7	298	31	15·1	9·4	330	31	6·7	1·6	341	31	8·7	6·8	301				
0·6 . .	31	18·7	16·2	249	31	13·7	6·1	318	31	15·6	15·2	296	31	17·2	11·1	322	31	12·4	3·0	344	31	13·8	11·7	311				
0·9 . .	31	16·4	15·6	264	31	13·2	9·4	302	31	16·2	15·4	292	29	16·6	12·6	310	31	12·9	4·3	333	31	15·0	12·3	306				
1·5 . .	31	12·6	11·5	280	28	13·5	12·5	292	29	16·4	14·5	290	26	16·2	14·0	295	30	13·6	6·0	325	30	14·8	13·0	302				
2·1 . .	30	9·8	8·5	288	27	17·7	17·1	290	24	16·8	15·6	290	16	16·7	15·5	285	29	15·0	10·0	304	30	14·8	13·0	302				
3·0 . .	29	10·8	6·3	303	9	23·1	20·6	263	20	19·9	18·4	280	4	19·0	17·3	285	26	18·3	15·3	305	26	16·7	14·1	292				
3·6 . .	14	10·6	5·3	311	2	18·5	14·9	256	16	21·2	20·3	284					21	20·5	17·1	296	23	19·1	17·2	295				
4·5 . .	7	11·3	6·4	355					10	29·2	25·6	287					15	25·7	21·9	290	22	23·3	21·0	296				
5·4 . .	1	12·0	12·0	315					4	32·2	31·9	286					11	29·0	24·4	297	21	24·4	23·0	297				
6·0 . .	1	17·0	17·0	260					1	41·0	41·0	270					7	23·6	21·0	280	19	26·9	25·0	292				
7·2 . .																4	34·0	31·8	284	17	33·2	30·8	283					
9·0 . .																2	46·5	44·4	289	9	48·4	43·7	274					

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9·0 Km. above mean sea level

May 1958 (VAISAKHA 11—JYAISTHA 10, 1880 SAKA)

Station	AMBALA				AMRITSAR				ANANTAPUR																
Time in I. S. T.	2330				0530*				1730*				0530				1730				2330				
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Surface . . .	31	7.5	3.7	342	30	4.1	0.9	010	30	5.1	2.3	258	31	5.7	4.7	246	31	4.3	0.9	032	31	8.3	5.0	247	
0.15 a. g. . .	31	18.4	10.4	348	25	4.8	1.1	003	26	7.1	4.0	299	31	11.4	9.3	250	29	6.8	1.5	356	27	14.0	7.4	235	
0.3 a. m. s. l. .	31	9.6	4.9	345	25	5.3	1.8	346	26	5.5	2.9	302													
0.6 . . .	31	18.8	11.3	344	22	13.6	6.2	329	26	11.4	6.7	288	31	12.9	10.3	257	29	7.2	2.0	328	27	14.2	7.0	238	
0.9 . . .	31	18.1	11.5	340	22	12.3	6.7	325	26	10.6	6.1	285	31	14.0	11.1	272	29	7.4	2.7	332	27	13.2	5.3	223	
1.5 . . .	29	14.0	10.2	329	22	11.4	6.1	304	26	10.7	6.8	280	31	8.5	3.3	273	29	7.4	2.2	352	27	7.7	2.8	118	
2.1 . . .	27	13.4	10.6	302	22	11.1	6.2	295	26	9.8	6.2	278	31	8.6	3.5	051	29	8.8	3.1	024	27	8.1	4.8	075	
3.0 . . .	24	15.4	13.8	287	21	14.0	7.6	286	26	13.3	9.9	271	31	14.7	11.3	067	27	12.0	8.0	055	26	14.4	11.7	059	
3.6 . . .	9	19.2	16.7	273	21	16.7	11.7	293	26	17.9	13.1	270	29	17.5	13.3	065	26	14.4	11.9	062	23	17.6	14.1	054	
" . .	1	31.0	31.0	285	21	19.7	17.2	275	26	20.8	15.0	278	27	18.5	13.3	067	25	17.2	14.1	070	7	16.1	14.0	052	
5.4 . . .	1	21.0	21.0	290	19	22.0	16.8	269	26	23.3	18.1	279	24	14.4	8.7	102	17	14.9	8.5	056	6	16.8	15.1	047	
6.0 . . .	1	20.0	20.0	295	19	21.8	17.7	272	26	34.5	20.4	277	21	11.9	5.2	118	16	12.5	5.4	042	3	3.3	2.6	323	
7.2 . . .					19	24.8	21.1	279	25	30.0	25.6	280	12	11.0	3.2	183	13	13.4	4.2	024	1	12.0	12.0	060	
9.0 . . .					16	28.8	26.2	272	22	36.0	14.5	275	2	11.5	10.7	245	7	6.4	3.3	194					

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9·0 Km. above mean sea level

May 1958 (VAISAKHA 11—JYAISTA 10, 1880 SAKA)

Station	BAGHDOGRA								BAIRAGARH								BAMRAULI							
Time in I. S. T.	1730				2330				0530				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	5.3	3.8	980	31	4.6	3.7	064	31	7.1	5.3	291	31	8.3	6.9	285	31	6.9	4.6	285	31	2.9	0.6	258
0.15 a. g.	31	7.3	2.8	076	30	9.6	9.2	077	31	20.5	15.7	305	31	9.4	7.9	283	31	17.1	14.7	305	31	6.8	2.9	299
0.3 a. m. s. l.	31	7.3	5.5	085	30	9.8	9.3	082	31	19.1	14.5	296	31	9.6	8.1	285	31	16.3	11.8	289	31	8.0	2.8	294
0.6	31	6.8	4.6	096	30	11.9	11.2	091	31	21.3	16.4	315	31	11.2	9.9	290	31	16.6	13.7	299	31	10.0	5.5	298
0.9	31	6.9	3.1	120	26	11.1	9.5	091	30	16.1	13.6	317	31	12.0	10.9	285	31	14.4	12.9	299	31	12.2	8.0	296
1.5	31	9.4	6.8	254	24	9.3	3.1	225	29	12.5	10.2	306	31	10.8	9.4	282	30	11.3	10.0	297	31	13.4	10.7	291
2.1	29	17.0	15.9	267	18	18.8	14.5	275	24	11.3	6.8	273	30	11.2	9.1	278	28	8.9	6.2	285	31	16.2	14.8	287
3.0	22	26.6	25.9	273	13	26.6	26.3	273	12	12.3	6.4	235	27	13.0	10.2	273	12	7.5	2.9	263	30	21.6	20.7	277
3.6	17	29.0	27.5	276	6	21.2	20.7	280	8	15.1	6.4	254	23	15.2	13.4	282	2	8.5	6.3	157	30	22.7	20.7	274
4.5	9	24.4	23.4	289	2	23.5	23.3	283	2	18.5	18.2	290	19	19.6	17.8	283					30	23.3	21.7	273
5.4	7	29.2	29.0	277	1	25.0	25.0	290					16	21.7	19.9	280					30	24.3	23.3	274
6.0	5	29.8	29.7	271									9	32.6	28.1	284					30	26.5	24.6	272
7.2	3	34.7	34.0	264																28	36.4	33.2	268	
9.0	1	43.0	43.0	265																28	48.1	44.5	257	

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

May 1958 (VAISAKHA 11—JYAISTA 10, 1880 SAKA)

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

May 1958 (VAISAKHA 11—JYAISTHA 10, 1880 SAKA)

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

May 1958 (VAISAKHA 11--JYAISTA 1880, SAKA)

Station	DARJEELING						DUM DUM																	
	Time in I. S. T.				0530		1730		0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0·5	0·3	045	31	5·7	5·5	216	31	5·7	4·7	183	31	7·7	6·4	188	31	8·7	7·9	183	31	6·8	5·5	181
0·15 a.g. . .	12	5·7	1·9	220	4	10·5	10·5	237	31	14·1	12·1	208	31	11·9	9·2	195	31	15·8	14·1	188	30	15·6	13·7	191
0·3 a.m.s.l. . .									31	14·7	12·2	218	31	12·7	9·4	201	31	16·4	14·4	192	30	19·0	16·7	197
0·6 . .									31	15·2	11·1	232	31	13·9	8·8	218	31	15·6	13·1	200	30	20·3	18·3	206
0·9 . .									31	15·1	10·1	242	31	14·4	11·3	229	31	14·4	10·7	215	27	15·4	12·3	219
1·5 . .									31	13·6	7·7	271	29	14·2	8·5	262	30	11·2	5·6	262	24	10·4	7·6	268
2·1 . .									31	12·3	8·1	290	25	13·9	13·6	281	29	11·7	7·6	299	21	11·9	10·2	311
3·0 . .	10	15·5	14·9	267	4	13·5	13·3	271	31	13·1	9·7	283	23	18·5	16·0	289	29	15·6	12·5	311	15	15·0	12·3	324
3·6 . .	5	22·6	22·4	278	2	17·5	17·5	295	..	..	..	..	21	20·0	18·0	295	..	..	..	..	3	18·3	17·0	303
4·5 . .	2	23·5	23·5	280	1	17·0	17·0	290	31	16·4	14·2	308	16	23·2	22·2	293	29	18·3	16·6	303				
5·4 . .	1	25·0	25·0	265					31	16·2	13·3	296	14	19·7	18·5	282	29	18·3	16·4	289				
6·0 . .									31	16·1	13·8	276	13	18·0	16·1	266	29	19·0	17·0	278				
7·2 . .									31	19·0	17·4	265	4	15·7	15·3	248	29	20·1	18·5	272				
9·0 . .									31	22·8	20·4	263	3	21·7	20·5	242	29	24·1	21·4	263				

Station	GADAG										GANNAVARAM														
	Time in I. S. T.				0530		1730		2330		0530				1730				2330						
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Surface . .	31	7.2	6.0	255	31	6.8	3.9	252	31	9.1	8.3	260	31	2.6	0.7	149	31	6.9	5.0	157	30	5.7	4.5	171	
0.15 a. g. . .	30	12.7	11.3	266	29	10.5	6.0	251	29	17.0	15.3	259	31	8.2	6.1	190	30	8.4	5.8	156	30	11.5	9.5	164	
0.3 a. m. s. l. . .													31	10.3	7.9	199	30	8.4	6.1	160	30	12.8	10.3	166	
0.6 " . .													31	12.9	9.3	204	30	7.2	4.6	168	30	12.3	8.6	161	
0.9 " . .	30	12.7	10.8	284	29	10.4	5.4	263	29	16.4	14.6	272	29	12.3	7.1	193	30	6.0	3.1	170	30	8.8	4.5	139	
1.5 " . .	29	10.0	6.3	354	29	9.1	4.5	235	28	9.3	3.6	338	29	9.6	2.1	095	30	5.5	1.0	058	30	8.5	3.8	076	
2.1 " . .	27	10.1	7.3	047	29	9.3	5.0	015	25	9.8	7.4	057	28	8.5	5.5	062	30	9.1	5.5	044	30	10.5	7.3	059	
3.0 " . .	25	12.4	10.6	066	27	13.4	10.9	048	23	14.8	12.7	066	22	12.1	9.0	046	30	13.3	10.2	044	28	11.8	8.3	055	
3.6 " . .	21	12.3	10.6	075	23	17.3	15.2	056	19	15.3	12.5	062	16	13.0	8.5	030	29	15.4	11.4	052	20	13.4	6.9	049	
4.5 " . .	8	9.9	3.3	045	21	19.6	15.7	061	12	12.3	7.1	068	5	8.6	2.3	213	26	13.3	5.8	052	.6	9.0	2.3	130	
5.4 " . .	1	7.0	7.0	275	16	16.7	10.2	070	6	11.8	3.7	057	4	10.7	8.9	235	23	12.2	2.7	322					
6.0 " . .						14	14.6	7.8	069	4	13.0	12.8	069	4	11.5	8.1	242	19	12.4	2.6	316				
7.2 " . .						6	12.8	5.6	131					2	4.0	3.5	115	11	15.1	2.8	280				
9.0 " . .						4	15.7	8.5	140								5	13.4	8.2	250					

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

May 1958 (VAISAKHA 11—JYAISTHA 10, 1880 SAKA)

Station	GAUHATI												GAYA											
	0530*				1130				1730*				2330				0530				1130			
Time in I. S. T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	4.2	3.3	059	31	3.0	2.5	030	31	3.7	3.1	065	31	4.2	2.6	068	31	2.7	0.6	190	31	5.6	4.9	277
0.15 a. g.	31	7.6	5.0	065	30	5.7	5.1	038	31	7.3	5.4	059	27	7.9	5.9	078	31	13.2	7.5	212	31	10.7	8.5	272
0.3 a. m. s. l.	31	7.8	3.3	060	30	5.5	4.1	046	31	7.0	4.2	064	27	7.7	5.2	082	31	14.0	7.8	212	31	10.6	8.6	275
0.6 "	31	8.3	0.7	017	30	5.2	1.7	050	31	8.1	0.1	161	27	6.6	1.9	085	31	15.7	9.4	254	31	12.0	10.5	280
0.9 "	31	10.9	4.5	253	27	7.6	4.0	232	31	10.4	5.6	237	27	7.7	5.0	218	31	15.9	11.6	279	31	12.4	10.8	281
1.5 "	31	19.7	17.3	252	26	17.0	14.0	236	31	18.1	16.5	234	26	16.9	16.1	240	30	16.0	13.4	292	22	12.4	10.4	280
2.1 "	31	26.1	24.0	258	20	21.2	17.7	248	31	24.1	23.1	256	16	18.9	17.5	255	28	18.2	15.6	291	9	15.1	14.3	281
3.0 "	31	30.7	28.0	266	14	24.3	23.3	264	31	29.1	28.5	269	9	16.1	15.7	262	10	20.3	19.6	293				
3.6 "	31	31.6	29.8	268	10	35.5	33.6	269	31	34.1	33.2	274	4	12.3	11.9	267	1	20.0	20.0	290				
4.5 "	31	31.7	30.9	267	5	38.4	33.8	268	31	36.1	31.9	281	2	12.0	11.9	266								
5.4 "	31	30.4	28.7	271					31	30.7	27.7	276	2	14.5	13.8	248								
6.0 "	31	30.3	28.9	270					31	31.0	29.9	272												
7.2 "	31	36.7	34.9	266					31	35.9	32.6	265												
9.0 "	23	47.7	45.4	262					19	45.0	43.0	257												
Station	GAYA								GOPALPUR								GORAKHPUR							
Time in I. S. T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	7.3	6.1	317	31	4.4	0.5	133	31	9.5	9.2	208	31	12.2	11.1	200	31	11.4	11.0	206	31	4.6	1.8	052
0.15 a. g.	31	14.3	11.5	312	31	15.6	2.8	310	31	18.5	17.5	209	31	21.6	18.8	198	31	19.9	18.3	208	31	13.5	2.6	071
0.3 a. m. s. l.	31	14.7	11.6	312	31	16.4	2.9	314	31	17.0	15.2	222	31	22.9	19.3	204	31	19.0	17.1	213	30	15.7	1.4	070
0.6 "	31	15.8	13.3	309	31	16.7	5.6	304	31	14.6	12.2	223	31	17.4	13.3	207	31	15.4	13.0	218	29	17.8	3.9	295
0.9 "	31	16.7	14.5	307	31	16.7	9.4	292	31	13.1	9.8	228	31	11.5	6.5	216	31	11.5	8.4	218	29	17.7	11.4	306
1.5 "	28	16.8	15.2	300	28	15.6	12.5	302	31	8.7	3.3	229	30	7.7	3.4	294	31	7.5	3.1	257	28	18.8	16.8	295
2.1 "	24	16.4	15.2	298	24	18.2	16.5	297	31	7.9	2.7	354	30	9.3	6.3	349	26	7.5	4.1	327	25	22.2	20.6	295
3.0 "	10	19.8	19.5	292	4	15.3	14.5	290	30	12.0	8.9	004	29	11.0	7.7	012	22	11.5	8.4	348	11	25.9	25.6	286
3.6 "	3	24.3	24.0	284					28	13.1	9.4	356	26	12.6	8.8	016	10	11.9	9.1	002	4	21.5	21.3	288
4.5 "									23	11.9	9.6	350	20	13.7	10.3	350	2	12.0	9.9	325	1	29.0	29.0	295
5.4 "									17	10.8	7.1	305	16	12.9	9.7	318					1	29.0	29.0	295
6.0 "									14	9.4	4.4	304	14	15.4	9.8	305								
7.2 "									7	10.0	5.9	205	6	17.5	4.3	295								
9.0 "									3	12.0	8.6	126	2	18.0	5.9	292								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9·0 Km. above mean sea level

May 1958 (VAISAKHA 11—JYAIKTHA 10, 1880 SAKA)

Station	GORAKHPUR				GWALIOR								IMPHAL											
	1730				0530				1730				2330				0530				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	5·5	3·8	267	31	3·0	1·8	285	31	6·6	4·7	293	31	3·0	1·7	294	31	2·0	0·7	228	31	5·7	3·9	240
0·15 a. g. . .	31	12·4	8·5	281	31	11·6	5·2	314	31	12·3	8·6	300	31	12·6	6·7	327	27	4·3	1·4	200	29	8·3	5·6	241
0·3 a. m. s. l. . .	31	13·7	9·7	281	31	9·1	4·3	300	31	10·4	7·0	302	31	10·0	5·0	320								
0·6 „ . .	31	17·0	13·0	281	30	14·2	8·0	330	31	12·6	9·4	297	30	14·7	8·4	323					29	7·6	5·2	236
0·9 „ . .	31	17·3	14·0	281	27	13·6	7·8	321	31	13·5	10·7	296	29	14·4	10·1	309	27	4·0	1·2	195	27	11·0	10·2	261
1·5 „ . .	29	18·6	16·6	279	26	14·2	11·5	296	27	13·1	11·4	281	29	13·9	11·8	299	27	9·4	8·1	250	25	17·8	16·3	267
2·1 „ . .	26	21·5	20·7	282	23	17·3	15·6	288	22	12·5	11·0	283	25	13·8	12·9	287	24	17·2	16·3	254	11	19·7	15·9	277
3·0 „ . .	22	27·5	26·9	283	17	20·9	20·1	289	17	15·5	13·6	273	15	18·3	16·4	276	22	23·7	22·7	277	2	19·0	19·0	307
3·6 „ . .	19	30·5	29·6	287	7	21·0	19·6	287	13	17·0	15·0	279	5	13·4	10·8	247	16	23·7	22·7	283				
4·5 „ . .	17	30·4	29·7	283	4	21·5	18·7	276	9	28·2	25·3	290	3	12·0	10·4	210	12	26·0	24·8	273				
5·4 „ . .	15	34·0	32·1	281	3	29·0	23·8	273	6	34·0	33·3	296	1	17·0	17·0	180	2	17·0	17·0	277				
6·0 „ . .	12	34·6	32·8	281	1	28·0	28·0	250	6	37·7	37·0	291	1	16·0	16·0	200	1	18·0	18·0	275				
7·2 „ . .	7	29·9	28·2	270																				
9·0 „ . .	1	54·0	54·0	265																				
Station	IMPHAL								JABALPUR								JAGDALPUR							
Time in I. S. T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	3·9	3·1	242	31	2·2	1·4	221	31	2·7	1·6	175	31	5·0	3·9	308	31	2·3	0·5	169	31	0·5	0·0	360
0·15 a. g. . .	31	7·9	6·1	244	28	4·8	2·7	235	30	12·3	4·6	181	31	11·6	9·3	308	31	12·5	5·0	337	31	11·7	9·4	214
0·3 a. m. s. l. . .																								
0·6 „ . .	31	7·5	5·5	244					30	13·5	3·9	189	31	12·6	10·3	307	31	13·4	5·8	338	31	5·5	4·1	214
0·9 „ . .	31	10·8	8·6	259	28	3·8	1·7	226	30	13·2	2·9	287	31	12·2	10·1	309	31	14·2	8·3	334	31	14·4	12·2	221
1·5 „ . .	28	18·1	16·4	261	28	12·0	10·2	254	30	11·4	6·2	332	31	10·2	8·7	303	31	12·8	9·9	325	31	9·1	7·2	229
2·1 „ . .	23	23·0	21·6	275	25	16·7	13·9	255	30	11·5	9·3	319	31	10·6	9·0	297	31	11·5	9·0	301	27	6·6	1·0	258
3·0 „ . .	17	20·0	18·9	281	19	19·1	17·9	270	29	12·9	11·0	301	27	11·2	9·8	300	28	13·0	10·9	282	22	9·8	7·7	017
3·6 „ . .	13	24·3	23·3	279	15	18·7	18·0	273	28	14·7	12·3	290	25	11·8	9·6	295	18	12·7	10·8	286	17	12·2	9·7	014
4·5 „ . .	11	23·8	22·8	266	6	13·8	13·5	263	24	15·0	12·5	282	19	13·8	11·3	280	4	14·5	12·1	250	9	13·7	11·7	008
5·4 „ . .	6	21·8	20·5	262	4	14·0	13·5	257	15	18·7	15·6	298	16	17·4	15·0	293	1	21·0	21·0	290	5	6·2	2·9	034
6·0 „ . .	3	26·7	24·8	253	2	11·0	10·8	267	10	25·4	22·6	310	11	22·8	19·9	292					3	6·0	4·2	163
7·2 „ . .	3	23·7	21·6	240					3	35·7	33·6	274	9	33·7	28·5	299					1	10·0	10·0	320
9·0 „ . .													1	31·0	31·0	270					1	9·0	9·0	240

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9·0 Km. above mean sea level

MAY 1958 (VAISAKHA 11—JYAIKTHA 10, 1880 SAKA)

Station	JAGDALPUR				JAIPUR				JAMSHEDPUR							
	1730		2330		0530		1730		0530		1130					
Time in I. S. T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Ht. in Km.																
Surface .	31	4·1	2·2	156	31	1·9	1·1	193	31	4·2	2·5	333	31	8·1	6·0	284
0·15 a. g. .	27	10·3	6·4	168	31	13·9	7·4	197	31	12·6	5·3	293	30	12·2	9·3	280
0·3 a. m. s. l. .																
0·6 , , .	27	7·2	4·6	168	31	9·2	5·1	195	31	13·8	6·3	283	30	13·0	10·2	281
0·9 , , .	27	9·0	4·7	175	31	13·1	7·2	199	31	14·0	10·2	280	30	13·6	10·8	276
1·5 , , .	26	8·0	3·6	275	31	8·7	3·5	210	30	16·7	14·9	280	30	12·6	10·1	281
2·1 , , .	24	7·7	6·0	315	31	8·4	2·6	311	28	16·4	14·3	282	29	13·6	11·9	278
3·0 , , .	19	9·8	6·3	353	26	9·8	5·7	357	22	20·5	5·6	298	25	16·8	14·8	283
3·6 , , .	16	9·3	4·4	009	20	11·6	5·2	016	16	17·1	11·7	284	24	19·1	13·8	288
4·5 , , .	15	13·6	6·7	358	12	12·0	6·2	298	6	18·3	12·2	304	19	25·3	19·1	293
5·4 , , .	6	10·0	4·3	315	8	11·1	7·8	252	2	14·0	5·7	330	17	26·3	24·7	284
6·0 , , .	3	13·3	13·3	348	4	10·7	10·5	250	1	21·0	21·0	240	17	29·1	26·5	285
7·2 , , .	1	4·0	4·0	320	1	21·0	21·0	250					9	39·6	3·0	280
9·0 , , .													2	9·0	6·4	278
													1	19·0	19·0	215
Station	JAMSHEDPUR				JHARSUGUDA				JODHPUR							
Time in I. S. T.	1730		0530		1730		2330		0530*		1130					
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	4·5	0·8	248	31	3·0	2·1	164	31	5·4	2·8	237	31	5·5	2·9	169
0·15 a. g. .	30	8·6	0·9	174	31	9·2	6·8	190	29	9·4	5·7	225	30	13·6	12·3	192
0·3 a. m. s. l. .	30	8·7	0·9	187	31	7·4	5·4	184	29	9·3	5·3	222	30	12·0	9·1	188
0·6 , , .	30	10·1	2·1	257	31	11·9	10·8	238	29	10·0	6·4	235	30	15·0	11·2	203
0·9 , , .	31	10·9	4·1	272	31	15·2	13·2	252	29	9·5	6·7	245	30	14·3	10·5	262
1·5 , , .	31	10·5	6·5	271	31	14·0	12·0	273	29	9·3	6·9	266	29	10·0	6·5	250
2·1 , , .	31	11·5	7·8	282	30	11·5	8·9	290	28	9·6	7·3	298	27	9·6	7·7	299
3·0 , , .	28	14·0	12·0	305	29	11·7	9·1	308	25	12·1	11·0	314	26	12·1	9·9	332
3·6 , , .	25	15·8	14·6	310	22	11·8	6·5	295	22	14·6	13·2	325	16	13·0	11·8	337
4·5 , , .	14	20·1	18·8	304	6	16·3	12·3	283	10	22·0	21·5	316				
5·4 , , .	9	20·9	19·4	294					2	31·0	29·3	292				
6·0 , , .	5	17·6	14·7	277									27	25·7	21·6	278
7·2 , , .	1	8·0	8·0	180									26	36·8	33·4	270
9·0 , , .	1	22·0	22·0	200									26	54·1	50·2	266
													6	38·5	36·7	270

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9·0 Km. above mean sea level

May 1958 (VAISAKHA 11—JYAISTHA 10, 1880 SAKA)

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9·0 Km. above mean sea level

May 1958 (VAISAKHA 11—JYAISTHA 10, 1880 SAKA)

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9·0 Km. above mean sea level

May 1958 (VAISAKHA 11—JYAISTA 10, 1880 SAKA)

Station	RAIPUR								RAXAUL								SANTA CRUZ							
Time in I. S. T.	1730				2330				0530				1730				0530*				1130			
Ht. in Km.	n	v	v	D	n	v	v	D	n	v	v	D	n	v	v	D	n	v	v	D	n	v	v	D
Surface .	31	4.7	2.4	299	31	8.9	7.6	181	31	3.2	3.2	087	31	2.6	0.8	271	31	1.9	0.9	291	31	9.7	8.2	270
0.15 a. g. .	31	9.1	4.9	284	31	19.2	16.2	185	31	15.7	12.1	094	31	10.9	3.5	279	31	8.3	3.9	277	30	8.8	7.4	265
0.3 a. m. s. l. .									31	17.9	13.9	099	31	11.3	3.7	282	31	8.4	4.6	291	30	8.4	5.6	275
0.6 ., .	31	9.5	4.7	292	31	19.9	16.2	191	31	18.5	10.3	108	31	11.8	5.3	271	31	8.7	4.9	302	29	8.1	4.0	318
0.9 ., .	31	9.1	5.3	280	31	16.0	12.6	205	31	14.2	3.8	117	29	10.8	5.0	264	31	9.1	5.1	312	28	9.2	5.6	344
1.5 ., .	30	8.4	6.3	286	31	10.8	7.3	248	29	12.0	8.1	280	29	12.8	9.9	276	31	10.7	6.9	334	27	12.0	7.9	345
2.1 ., .	30	8.9	6.9	288	31	10.0	7.8	284	27	17.1	16.3	284	29	17.6	17.0	275	31	10.0	5.6	338	24	11.4	6.2	338
3.0 ., .	28	9.6	6.6	284	27	12.6	8.8	322	25	27.0	26.8	286	22	21.6	21.1	280	31	10.7	2.4	201	23	10.2	2.5	132
3.6 ., .	27	10.7	7.6	295	24	13.2	7.8	331	22	28.0	27.9	285	18	25.0	24.0	275	31	10.3	3.6	185	19	10.1	3.7	123
4.5 ., .	18	14.4	9.8	309	6	18.2	17.6	338	12	24.8	24.6	283	11	23.0	22.3	287	31	9.5	2.4	200	17	9.6	2.2	140
5.4 ., .	11	21.0	14.5	300	2	12.0	11.3	295	4	18.0	17.6	269	7	24.1	23.8	271	31	11.6	3.8	278	15	10.1	3.9	265
6.0 ., .	11	23.0	16.4	286	2	17.0	16.9	273	3	23.7	23.2	266	6	26.3	26.0	262	31	13.2	6.5	305	16	12.3	5.2	304
7.2 ., .	4	18.5	13.3	247	1	22.0	22.0	270	1	27.0	27.0	250	1	42.0	42.0	262	31	16.9	9.5	290	13	18.8	9.8	307
9.0 ., .	4	22.0	16.5	252													26	21.0	15.3	270	10	19.5	11.4	282

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9·0 Km. above mean sea level

May 1958 (VAIBAKHA 11—JYANTHA 10, 1880 SAKA)

Station	TIRUCHIRAPALLI								TRIVANDRUM							
	0530		1730		2330		0530*		1130		1730*					
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	6·7	5·6	270	31	7·4	2·8	247	31	5·1	3·1	214	31	4·4	3·8	342
0·15 a.g.	30	14·6	13·2	273	30	11·1	4·9	258	28	11·0	7·6	208	31	5·7	4·9	335
0·3 a.m.s.l.	30	16·3	14·7	272	30	10·8	4·9	262	28	11·9	8·3	211	31	6·9	6·0	330
0·6	30	17·4	15·3	268	30	10·4	4·9	260	28	13·6	8·9	217	31	9·5	8·4	318
0·9	30	13·8	10·9	269	30	10·2	4·9	270	28	11·7	6·5	231	31	12·1	10·9	306
1·5	29	8·5	3·4	268	30	10·1	3·9	301	27	8·8	3·7	286	31	11·7	9·4	306
2·1	28	9·5	2·9	009	27	9·5	3·8	350	25	9·2	4·7	003	31	11·2	6·1	318
3·0	26	12·1	6·9	062	26	13·0	7·8	050	20	12·3	6·5	059	31	11·5	2·9	349
3·6	24	10·5	4·0	059	24	14·0	7·8	068	15	16·9	9·1	069	30	11·7	2·4	328
4·5	17	9·9	1·8	257	23	10·3	4·7	093	11	15·5	6·4	071	30	11·7	2·7	262
5·4	14	8·4	3·9	236	18	12·1	1·0	178	3	7·0	3·0	058	30	11·3	4·0	254
6·0	11	7·7	4·2	236	15	10·0	1·7	138	2	3·0	1·9	231	30	11·1	4·8	247
7·2	8	8·5	3·8	239	8	8·5	4·3	055					30	9·7	2·8	204
9·0	2	12·0	11·3	068	4	8·7	2·4	070					28	10·9	4·8	118
Station	TRIVANDRUM				UDAIPUR								VENGURLA			
Time in I.S.T.	2330		0530		1730		2330		0530		1730					
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3·8	3·1	341	31	1·4	1·0	271	31	4·2	3·4	260	31	2·5	2·3	259
0·15 a.g.	30	10·9	8·7	325	31	7·6	6·1	280	31	10·1	8·4	258	31	8·7	3·9	261
0·3 a.m.s.l.	30	12·9	11·0	314									30	8·7	6·9	328
0·6	30	15·2	13·5	307									30	9·4	8·1	324
0·9	30	15·5	14·1	304	31	10·9	9·1	281	31	11·3	9·1	259	31	10·6	9·3	267
1·5	29	14·4	12·4	300	31	15·0	8·9	288	31	11·1	9·7	265	31	14·2	12·2	274
2·1	25	12·2	6·0	312	31	12·2	10·2	274	30	10·4	8·9	279	30	12·3	10·6	280
3·0	21	10·5	1·9	010	28	14·3	9·2	276	30	12·3	10·1	284	29	9·3	6·6	282
3·6	17	11·9	0·3	211	19	10·6	6·0	277	30	14·1	11·3	285	22	10·7	6·4	290
4·5	4	15·3	3·0	252	5	14·0	9·1	265	24	13·9	10·8	285	14	13·3	8·0	283
5·4	1	4·0	4·0	250					23	17·7	14·8	293	1	16·0	16·0	280
6·0	1	3·0	3·0	095					23	21·3	18·0	290	1	19·0	19·0	275
7·2									20	30·2	25·3	291				
9·0									14	42·7	38·6	294				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9·0 Km. above mean sea level

May 1958 (VAISAKHA 11—JYAIKTHA 10, 1880 SAKA)

Station	VENGURLA				VERAVAL								VISAKHAPATNAM			
	Time in I. S. T.				2330		0530*		1130		1730*		2330		0530*	
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·8	1·8	326	31	7·3	6·4	288	31	9·3	8·6	268	31	12·6	11·9	272
0·15 a. g.	29	7·5	6·4	316	31	14·2	13·0	292	31	10·9	10·0	271	31	18·1	17·8	272
0·3 a. s. l.	29	8·9	8·2	310	31	14·3	13·3	292	31	11·7	9·8	282	31	17·1	16·1	275
0·6 „	29	10·0	9·0	314	31	13·2	11·6	293	31	12·0	10·1	298	31	14·8	12·9	280
·9 „	29	9·4	8·0	318	31	11·9	8·3	267	31	10·8	8·2	303	31	12·1	10·4	294
1·5 „	26	10·9	8·8	331	31	9·8	5·7	283	29	8·0	4·3	283	31	9·5	7·2	300
2·1 „	24	7·3	4·8	032	31	9·1	4·8	273	29	7·1	3·1	260	31	9·1	5·7	300
3·0 „	21	12·1	11·0	079	31	10·8	4·0	269	27	10·7	4·0	248	31	10·5	3·5	281
3·6 „	7	12·4	11·4	090	31	11·9	2·7	249	27	11·2	0·8	310	31	11·6	3·7	300
4·5 „					31	13·8	5·8	340	26	12·5	4·0	347	31	14·4	3·7	309
5·4 „					31	17·2	8·7	318	25	14·8	7·7	313	31	16·1	7·5	303
6·0 „					31	19·5	12·3	313	25	18·8	10·5	310	31	17·9	10·3	293
7·2 „					31	25·6	20·2	296	24	23·1	15·8	304	31	20·3	17·4	290
9·0 „					29	29·4	24·2	271	17	26·9	23·4	287	31	27·7	22·5	274

Station	VISAKHAPATNAM							
Time in I.S.T.	1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D
Surface	31	9·5	8·0	210	31	5·3	5·0	216
0·15 a. g.	31	9·2	8·2	195	31	7·7	7·1	216
0·3 a. s. l.	31	9·0	7·7	198	31	8·9	8·1	221
0·6 „	31	8·5	6·3	206	31	9·8	8·4	227
0·9 „	31	7·9	4·7	220	29	8·1	6·1	231
1·5 „	28	6·3	3·1	272	28	4·9	0·1	324
2·1 „	28	7·5	3·8	004	28	7·1	3·3	047
3·0 „	27	11·3	7·7	037	26	11·4	6·6	044
3·6 „	25	14·3	10·8	035	21	12·5	7·3	034
4·5 „	23	13·7	8·0	032	11	10·6	5·6	345
5·4 „	19	11·2	2·7	352	5	17·2	10·8	323
6·0 „	11	11·8	4·0	293	1	7·0	7·0	315
7·2 „	6	12·3	4·9	347				
9·0 „	1	11·0	11·0	270				

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9·0 Km. above mean sea level

May 1958 (VAISAKHA 11—JYAISTHA 10, 1880 SAKA)

Ht. in Km.	n	V	v	D	Ht. in Km.	n	V	v	D	Ht. in Km.	n	V	v	D	Ht. in Km.	n	V	v	D					
AGARTALA																								
0530 hrs.																								
10·5	1	29·0	29·0	270	10·5	2	12·0	11·5	212	10·5	1	13·0	13·0	300	10·5	4	15·5	12·7	157					
						12·0	1	16·0	16·0	215	12·0	1	20·0	20·0	235	12·0	2	16·5	13·1	154				
						14·1	1	21·0	21·0	185					14·1	2	17·0	13·1	159					
						1730 hrs.																		
10·5	2	21·0	21·0	260																				
12·0	1	26·0	26·0	265																				
						10·5	4	7·0	3·4	162	10·5	1	35·0	35·0	255									
						12·0	2	9·0	4·5	235	12·0	1	34·0	34·0	260									
						14·1	2	22·5	15·5	159	14·1	1	25·0	25·0	270									
						16·2					16·2	1	14·0	14·0	320									
						18·0					18·0	1	7·0	7·0	230	10·5	13	52·5	49·9	259				
															12·0	7	46·3	42·5	253					
															14·1	1	54·0	54·0	250					
															10·5	23	58·6	52·6	267					
															12·0	19	58·2	56·8	261					
															14·1	12	66·0	60·8	256					
AHMEDABAD																								
1730 hrs.																								
10·5	5	44·0	33·5	254																				
12·0	3	29·0	29·0	283																				
						10·5																		
						BAMRAULI																		
						0530 hrs.*																		
						10·5	24	53·2	49·8	256														
						12·0	16	53·5	52·4	251														
						14·1	6	47·8	40·2	259	10·5	2	17·5	17·3	294									
						AMBALA																		
						16·2	2	20·0	19·9	286														
						0530 hrs.																		
						18·0	1	14·0	14·0	330														
10·5	2	83·0	81·3	290																				
						10·5																		
						1130 hrs.																		
						10·5	1	63·0	63·0	255	12·0	27	26·3	21·7	252	10·5	2	8·0	5·3	212				
						14·1	16	26·4	20·6	243														
10·5	7	52·7	49·4	263																				
12·0	4	62·5	59·3	260																				
						10·5	26	56·3	52·6	253														
						12·0	23	48·5	41·3	248	14·1	7	23·0	16·3	216									
						14·1	14	50·3	44·3	243	1·5	1	9·0	9·0	200									
						AMBITSAR																		
						16·2	4	37·5	34·2	257														
						0530 hrs.*																		
						18·0	2	20·5	6·5	300	10·5	28	25·8	21·7	260									
10·5	13	40·9	37·4	254																				
12·0	13	58·0	53·9	254																				
14·1	8	73·4	70·7	252																				
16·2	1	35·0	35·0	240																				
						BANGALORE																		
						18·0	4	17·0	11·9	237	10·5	1	31·0	31·0	185									
						21·0	2	8·5	5·9	120														
						24·0	1	24·0	24·0	090														
10·5	18	46·0	44·4	268																				
12·0	16	53·1	50·3	255	10·5	1	22·0	22·0	120	30·0	1	15·0	15·0	150										
14·1	6	67·6	65·0	258	12·0	1	20·0	20·0	135	33·0	1	21·0	21·0	180										
16·2	3	35·0	33·7	260	14·1	1	32·0	32·0	155	36·0	1	21·0	21·0	270	10·5	1	30·0	30·0	210					

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9·0 Km. above mean sea level

May 1958 (VAISAKHA 11—JAYISTHA 10, 1880 SAKA)

RADIOSONDE DATA**May 1958 (VAISAKHA 11—JYAISTHA 10, 1880 SAKA)**

During the month, observations of upper air temperature, pressure and humidity were made at 13 stations in India as given in the list below. For a detailed description of the instruments used, a reference may be made to the I. M. D. Scientific Notes Nos. 112 and 113 (Volume IX).

LIST OF RADIOSONDE STATIONS IN INDIA

S. No.	Name of station	Type of instrument used	Date of starting	Hours of routine observations in GMT during the month	Remarks
1	Allahabad	Clock type	1st October 1944	00 and 12	
2	Amritsar	Clock type	21st June 1957	00 and 12	
3	Bombay	Clock type	7th September 1954	00 and 12	
4	Calcutta	Clock type	13th December 1946	00 and 12	Fan type used from 13th December, 1946 to 30th November 1947.
5	Gauhati	Clock type	22nd July 1955	00 and 12	
6	Jodhpur	Clock type	17th April 1946	00 and 12	
7	Madras	Fan type	29th June 1946	00 and 12	
8	Nagpur	Fan type	1st October 1946	00 and 12	
9	New Delhi	Clock type	3rd December 1943	00 and 12	
10	Port Blair	Fan type	4th December 1949	00 and 12	
11	Trivandrum	Fan type	1st July 1947	00 and 12	
12	Veraval	Fan type	3rd October 1944	00 and 12	
13	Visakhapatnam	Fan type	8th December 1946	00 and 12	

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES
 (A) From ascents at 00 hrs. G. M. T.
 May 1958 (VAISAKHA 11—JYAIKHA 10, 1880 SAKA)

Standard pressure surface mbs.	ALLAHABAD Surf. Pr. (990 mb.)							AMRITSAR (976 mb.)							BOMBAY (1005 mb.)						
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A						
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			
Surface	31	098	301·6	307	297	286·6	29	230	296·9	302	290	283·3	31	013	300·7	303	297	296·9			
1000	31	010	...	...	...	...	25	023	...	...	...	...	31	057	...	...	...	...
900	31	954	303·4	306	299	277·3	25	948	299·9	304	296	275·8	31	986	297·0	303	292	287·9			
850	31	1460	300·0	304	294	273·5	25	1448	296·5	302	292	272·8	31	1484	295·9	299	292	281·2			
800	31	1990	295·5	301	289	271·6	25	1973	292·7	296	288	271·7	31	2011	293·6	298	289	277·4			
700	31	3129	285·5	292	278	266·6	25	3103	283·8	289	279	266·1	31	3147	285·6	296	280	273·4			
600	31	4395	274·8	281	268	259·1	25	4363	273·4	277	269	254·5	31	4421	276·6	289	270	261·9			
500	31	5838	265·5	271	260	...	22	5793	262·8	267	258	...	31	5882	269·1	277	263	...			
400	30	7546	256·3	261	251	...	22	7478	252·2	264	244	...	31	7612	259·5	266	250	...			
300	29	9657	244·5	250	240	...	18	9544	237·6	246	227	...	25	9753	246·2	252	240	...			
250	29	10942	236·3	241	231	...	18	10791	229·9	240	217	...	24	11030	236·3	246	228	...			
200	28	12448	225·3	230	219	...	15	12304	225·1	233	218	...	23	12544	224·3	232	214	...			
175	27	13333	219·1	223	213	...	14	13183	222·3	232	214	...	22	13424	218·0	225	207	...			
150	26	14298	212·1	218	207	...	13	14178	219·9	227	211	...	18	14389	212·0	220	202	...			
125	23	15434	207·2	212	201	...	7	15369	214·9	220	207	...	14	15512	205·9	213	196	...			
100	21	16768	202·6	208	195	...	6	16709	210·8	216	204	...	7	16866	201·6	209	195	..			
80	18	18105	203·3	213	195	...	...	...	...	...	...	...	6	18191	199·2	208	194	...
CALCUTTA (1003 mb.)							GAUHATI (1000 mb.)							JODHPUR (979 mb.)							
Surface	31	006	300·5	302	297	299·2	31	049	297·3	300	295	295·3	30	218	303·3	307	298	285·3			
1000	31	029	...	...	...	...	31	047	...	...	...	...	30	024	...	...	...	...
900	31	957	298·9	305	294	288·7	31	964	294·3	299	291	288·9	30	963	302·7	307	299	279·1			
850	31	1458	296·4	301	292	284·5	31	1458	292·4	297	288	286·3	30	1469	299·6	304	293	274·6			
800	31	1983	293·0	299	289	281·1	31	1977	289·5	294	285	283·3	30	1999	295·6	301	286	272·6			
700	31	3116	284·5	290	281	274·0	31	3100	282·8	290	279	268·2	30	3142	286·9	292	280	266·4			
600	31	4383	275·1	281	270	263·5	31	4364	275·8	282	272	265·8	30	4416	276·4	284	271	256·9			
500	31	5836	267·4	274	261	...	31	5823	268·7	274	264	...	30	5866	266·2	273	261	...			
400	31	7560	258·7	265	248	...	31	7549	259·2	266	253	...	30	7572	255·5	262	250	...			
300	31	9685	244·1	252	235	...	23	9682	246·0	251	240	...	30	9677	244·0	249	237	...			
250	29	10969	235·2	244	214	...	19	10976	237·8	243	229	...	30	10965	236·3	240	230	...			
200	26	12497	224·4	232	214	...	15	12474	226·8	237	218	...	28	12483	226·5	232	221	...			
175	20	13382	218·4	227	212	...	10	13352	220·3	228	215	...	28	13361	221·0	227	214	...			
150	12	14357	212·4	218	204	...	6	14319	214·0	220	210	...	27	14373	214·9	222	205	...			
125	9	15442	205·1	212	201	...	...	...	...	...	...	...	24	15453	209·0	216	202	...
100	6	16799	199·7	205	193	...	...	...	...	...	...	...	21	16777	204·3	209	196	...
80	...	...	...	...	...	...	...	...	...	...	...	...	18	18163	205·2	222	193	...

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From ascents at 00 hrs. G. M. T.

May 1958 (VAISAKHA 11—JYAISTHA 10, 1880 SAKA)

Standard pressure surface mbs.	MADRAS Surf. Pr. (1003 mb.)							NAGPUR (969 mb.)							NEW DELHI (978 mb.)						
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A						
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			
Surface	31	015	301.6	303	299	297.9	31	311	300.5	309	299	287.5	31	210	298.4	304	295	285.7			
1000	31	043	...	...	...	...	31	028	...	...	...	...	31	016	...	...	...	...
900	31	973	297.7	302	294	288.9	31	970	302.8	307	297	282.6	31	948	301.9	306	293	276.1			
850	31	1472	295.0	298	291	285.3	31	1477	299.3	305	292	280.1	31	1452	299.0	203	295	273.1			
800	31	1995	292.2	295	288	281.8	31	2007	295.3	301	289	278.0	31	1980	294.8	299	290	271.2			
700	30	3129	285.9	289	283	272.0	31	3149	286.2	291	282	273.4	31	3117	285.0	290	281	265.6			
600	30	4408	278.1	282	274	264.9	31	4419	275.2	283	269	267.1	31	4381	274.4	278	271	256.3			
500	29	5871	269.2	273	261	...	30	5863	266.1	276	257	...	31	5821	264.3	269	259	...			
400	29	7599	258.7	263	254	...	29	7580	258.3	269	253	...	31	7512	253.3	259	248	...			
300	23	9731	244.3	250	239	...	23	9701	243.7	253	235	...	31	9593	241.2	246	232	...			
250	22	11014	234.2	243	227	...	22	10980	234.3	246	225	...	30	10840	234.3	240	225	...			
200	18	12500	220.8	225	211	...	18	12486	224.4	233	215	...	29	12367	226.0	234	217	...			
175	14	13348	215.2	223	205	...	18	13354	218.4	228	208	...	27	13229	220.3	225	212	...			
150	11	14324	206.8	217	199	...	17	14338	213.2	223	202	...	24	14213	215.3	219	209	...			
125	7	15409	201.0	207	193	...	9	15506	209.8	217	200	...	22	15360	209.5	215	202	...			
100	...	...	...	...	...	...	7	16915	204.9	212	197	...	20	16712	204.4	214	199	...
80	...	...	...	...	...	...	7	18249	204.3	221	197	...	17	18005	202.4	212	195	...
	PORT BLAIR (999 mb.)							TRIVANDRUM (1000 mb.)							VERVAL (1005 mb.)						
Surface	31	079	299.5	304	298	298.3	31	064	299.0	301	298	297.2	31	008	300.3	302	297	296.9			
1000	31	067	...	...	...	...	31	061	...	...	...	...	31	052	...	...	...	...
900	31	997	296.6	298	295	292.9	31	987	295.3	297	293	288.8	31	981	300.8	306	294	278.4			
850	31	1495	291.1	297	291	289.8	31	1483	292.9	295	290	285.3	31	1484	298.1	302	295	273.3			
800	31	2019	291.5	295	288	286.1	31	2003	290.1	293	287	282.3	31	2010	294.3	298	292	273.1			
700	31	3155	285.7	291	281	280.6	31	3131	283.9	289	279	275.3	31	3147	285.7	291	281	268.9			
600	31	4435	278.7	283	272	271.5	31	4401	277.0	282	270	267.7	31	4417	275.9	283	268	258.9			
500	29	5903	270.8	275	263	267.6	31	5862	268.8	274	265	...	31	5870	267.3	273	261	...			
400	27	7648	261.9	269	258	...	31	7589	258.9	265	255	...	31	7587	257.3	266	251	...			
300	21	9809	249.0	258	240	...	30	9713	242.9	250	237	...	30	9701	243.1	250	236	...			
250	11	11110	239.5	246	235	...	30	10982	232.5	243	221	...	29	10977	233.5	240	224	...			
200	7	12649	227.7	234	221	...	29	12463	220.2	227	209	...	26	12482	222.5	229	215	...			
175	...	...	...	...	...	...	17	13350	214.8	225	204	...	24	13336	216.1	222	209	...
150	...	...	...	...	...	...	14	14319	208.7	218	197	...	24	14298	209.1	215	202	...
125	...	...	...	...	...	...	8	15398	201.5	215	188	...	17	15403	202.9	208	190	...
100	...	...	...	...	...	...	8	16710	199.1	207	185	...	10	16754	197.6	202	189	...
80	...	...	...	...	...	...	...	...	...	...	...	...	8	18188	200.4	212	195	...

RADIOSONDE DATA**TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES**

(A) From ascents at 00 hrs G. M. T.

May 1958 (VAISAKHA 11—JYAIKTHA 10, 1880 SAKA)

Standard pressure surface mbs.	VISAKHAPATNAM Surf. Pr. (1000 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew Point
Surface	31	048	302.3	305	301	298.3
1000	31	044	...	...	...	...
900	31	978	298.2	302	295	290.1
850	31	1478	296.6	301	291	284.3
800	31	2004	293.6	297	289	280.3
700	31	3141	285.7	290	281	274.4
600	31	4412	276.5	281	273	269.6
500	31	5864	267.5	272	259	...
400	31	7582	257.6	264	252	...
300	18	9700	245.6	251	242	...
250	14	10985	234.4	242	229	...
200	13	12488	223.5	233	216	...
175	10	13389	218.2	229	211	...
155	8	14374	211.9	224	199	...
120						
100						
80						

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES
(B) From ascents at 12 hrs. G. M. T.

May 1958 (VAISAKHA 11—JYAISTHA 10, 1880 SAKA)

Standard pressure surface mbs.	ALLAHABAD Surf. Pr. (988 mb.)							AMRITSAR (975 mb.)							BOMBAY (1004 mb.)						
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A						
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			
Surface	31	98	314.1	316	309	284.3	31	230	309.5	312	303	281.9	31	13	305.0	307	304	297.5			
1000	31	-13	...	...	...	...	27	3	...	...	...	...	31	45	...	...	...	...
900	31	950	307.4	312	303	278.7	27	959	305.3	311	299	274.1	31	984	300.0	305	296	286.4			
850	31	1462	302.9	308	299	275.6	27	1469	301.4	307	294	271.6	31	1487	298.1	303	293	280.7			
800	31	1997	298.1	302	293	274.2	27	2001	296.7	302	289	269.3	31	2016	295.3	300	289	278.5			
700	31	3144	287.1	292	280	269.9	27	3144	286.8	292	281	262.8	31	3161	287.6	291	281	274.3			
600	29	4417	276.7	283	270	261.1	27	4416	276.2	281	270	246.6	31	4442	278.6	283	275	265.6			
500	29	5869	266.8	275	260	...	27	5862	264.8	270	259	...	31	5910	271.0	276	267	251.0			
400	29	7584	257.6	266	251	...	27	7557	253.5	259	243	...	31	7655	261.3	266	257	...			
300	28	9700	245.0	254	239	...	22	9646	239.8	250	225	...	26	9799	247.7	251	241	...			
250	26	10981	235.1	242	229	...	18	10908	233.0	246	221	...	23	11093	238.6	243	230	...			
200	26	12487	225.0	231	217	...	18	12406	225.6	237	214	...	18	12634	228.6	232	225	...			
175	26	13360	219.0	225	212	...	15	13282	222.3	233	209	...	16	13503	221.9	227	217	...			
150	26	14335	212.4	220	204	...	9	14340	219.4	228	208	...	13	14506	216.1	220	210	...			
125	23	15437	205.0	214	197	...	8	15492	215.1	225	208	...	9	15645	208.4	213	200	...			
100	20	16764	200.3	208	195	...	6	16855	208.8	213	204	...	7	16959	201.9	207	192	...			
80	17	18082	201.9	214	196	...	5	18169	207.0	210	205	...	5	18435	203.2	206	198	...			
CALCUTTA (1000 mb.)							GAUHATI (996 mb.)							JODHPUR (976 mb.)							
Surface	31	6	305.9	313	300	299.4	31	49	302.0	306	296	298.3	30	218	313.2	317	310	283.7			
1000	30	7	...	...	...	...	31	17	...	...	...	...	30	-3	...	...	...	...
900	30	950	301.6	308	294	291.4	31	947	297.1	302	293	293.0	30	960	308.2	312	303	277.0			
850	30	1455	299.4	307	292	286.1	31	1444	294.7	300	291	289.5	30	1474	303.4	308	299	273.3			
800	30	1987	295.9	303	289	282.4	31	1967	291.6	297	287	285.8	30	2009	298.6	304	294	273.0			
700	30	3131	287.4	296	284	274.8	31	3099	284.6	290	279	275.5	30	3159	287.8	293	283	265.8			
600	30	4411	278.0	284	275	266.3	31	4368	276.9	282	270	265.7	3	4435	276.8	285	271	257.5			
500	30	5879	270.8	275	264	253.2	31	5829	270.0	275	261	...	29	5889	266.9	274	260	...			
400	30	7621	261.1	267	256	...	31	7563	259.8	267	249	...	27	7602	256.3	264	251	...			
300	30	9767	247.3	254	241	...	22	9684	246.5	256	241	...	26	9711	244.0	252	239	...			
250	27	11068	238.3	245	230	...	17	10961	236.0	241	231	...	25	10993	235.7	242	228	...			
200	26	12591	226.8	231	218	...	12	12481	226.0	232	217	...	22	12515	225.6	236	220	...			
175	25	13463	218.9	225	200	...							21	13381	220.1	250	213	...			
150	21	14463	213.6	220	209	...							17	14382	214.1	223	205	...			
125	14	15577	206.9	214	202	...							16	15456	206.6	218	199	...			
100	12	16910	199.8	206	195	...							16	16807	201.6	213	195	...			
80	6	18276	198.2	206	192	...							16	18122	202.7	211	197	...			

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From ascents at 12 hrs. G. M. T.

May 1958 (VAISAKHA 11—JYAISTHA 10, 1880 SAKA)

Standard pressure surface mbs.	MADRAS Surf. Pr. (1002 mb.)							NAGPUR (966 mb.)							NEW DELHI (977 mb.)						
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A						
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			
Surface	31	15	304.8	308	300	298.0	30	311	313.3	318	307	285.0	31	210	310.3	314	300	285.5			
1000	31	30	...	...	...	...	30	-12	...	...	...	...	31	-3	...	...	...	...
900	31	969	300.0	303	295	289.3	30	956	308.5	314	303	281.3	31	951	305.8	311	297	277.9			
850	31	1470	296.1	300	292	286.8	30	1470	303.4	308	298	279.2	31	1461	301.7	306	293	274.0			
800	31	1996	292.7	297	289	282.8	30	2007	298.1	304	293	278.1	31	1993	296.9	303	289	273.1			
700	31	3132	285.9	289	283	274.9	30	3155	287.9	293	281	273.9	31	3137	286.5	293	280	267.2			
600	31	4406	277.7	281	273	267.2	30	4432	276.4	280	269	269.5	31	4408	275.9	280	269	256.0			
500	31	5870	269.1	273	265	...	29	5882	266.4	271	261	...	31	5857	265.8	271	259	...			
400	31	7599	259.1	265	251	...	28	7593	257.5	265	250	...	31	7559	254.1	260	251	...			
300	24	9733	244.4	252	236	...	28	9709	243.3	251	236	...	29	9651	241.7	249	235	...			
250	20	11008	234.1	241	225	...	26	10985	233.2	241	224	...	25	10933	234.8	242	227	...			
200	18	12513	222.4	230	215	...	21	12482	221.5	230	213	...	23	12435	226.1	234	221	...			
175	17	13364	216.0	225	209	...	15	13414	217.4	224	209	...	23	13310	221.5	229	216	...			
150	15	14338	209.5	221	202	...	14	14363	212.4	220	204	...	23	14294	215.0	222	210	...			
125	11	15470	203.8	212	195	...							18	15438	209.1	217	205	...			
100					...								16	16779	203.4	215	198	...			
80					...								14	18120	204.4	213	198	...			
PORT BLAIR (998 mb.)							TRIVANDRUM * (999 mb.)							VERAVAL (1005 mb.)							
Surface	31	79	301.3	303	297	298.3	31	64	302.2	303	299	298.0	31	8	303.9	305	301	298.8			
1000	31	57	...	...	...	...	31	55	...	...	...	...	31	51	...	...	...	...
900	31	988	295.7	299	293	293.4	31	988	296.6	300	293	291.5	31	985	301.7	308	295	279.9			
850	31	1485	293.2	295	288	290.5	31	1485	293.8	297	291	288.1	31	1490	299.0	306	295	275.2			
800	31	2008	290.6	294	286	287.7	31	2008	291.2	295	288	285.1	31	2020	295.0	298	291	273.7			
700	31	3141	284.8	289	280	281.4	31	3141	285.6	291	283	278.0	31	3160	286.6	290	281	269.8			
600	31	4418	277.8	281	274	274.6	31	4419	278.6	283	275	271.2	31	4436	277.5	282	273	259.8			
500	31	5885	270.3	275	264	...	31	5888	270.7	275	265	...	31	5895	268.9	277	260	...			
400	30	7622	260.4	267	254	...	31	7627	260.7	267	255	...	31	7619	258.4	268	251	...			
300	24	9763	247.1	254	237	...	28	9773	246.5	253	241	...	31	9736	243.5	250	235	...			
250	19	11039	236.4	243	229	...	26	11070	236.3	243	225	...	31	11014	234.1	239	226	...			
200	19	12558	226.6	232	219	...	23	12585	224.4	232	214	...	29	12518	224.0	232	214	...			
175	16	13430	221.0	226	214	...	17	13448	218.2	227	211	...	28	13391	217.5	225	209	...			
150	16	14408	214.9	221	208	...	16	14445	211.6	221	203	...	26	14357	210.6	220	201	...			
125	13	15571	209.3	215	202	...	12	15501	203.7	214	198	...	22	15488	205.5	216	193	...			
100	10	16955	203.5	207	198	...	10	16859	197.3	207	189	...	21	16824	200.4	209	192	...			
80													18	18128	200.9	213	189	...			

RADIOSONDE DATA

TABLE VI--MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES
 (B) From ascents at 12 hrs. G. M. T.
 May 1958 (VAISAKHA 11—JYAISTHA 10, 1880 SAKA)

Standard Pressure Surface mbs.	VISAKHAPATNAM Surf. Pr. (998 mb)					
	No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	31	48	304.7	307	303	299.6
1000	29	30	...	...	...	...
900	29	968	299.7	305	296	289.8
850	29	1471	297.4	303	292	283.7
800	29	1999	294.2	301	290	280.7
700	29	3138	286.4	293	282	273.7
600	29	4414	277.6	286	274	266.2
500	29	5875	269.1	273	265	...
400	27	7596	258.1	265	253	...
300	24	9717	244.7	251	239	...
250	22	11021	236.1	243	231	...
200	12	12548	226.1	235	220	...
175	9	13429	219.8	230	210	...
150	7	14399	214.0	225	204	...
125						
100						
80						

NOTE.—Number of observations refer to those of dynamic height.

Means are not worked out for temperature and dew point for the 1000 mb. surface and for dew point for standard pressure surfaces with temperature less than 273° A.

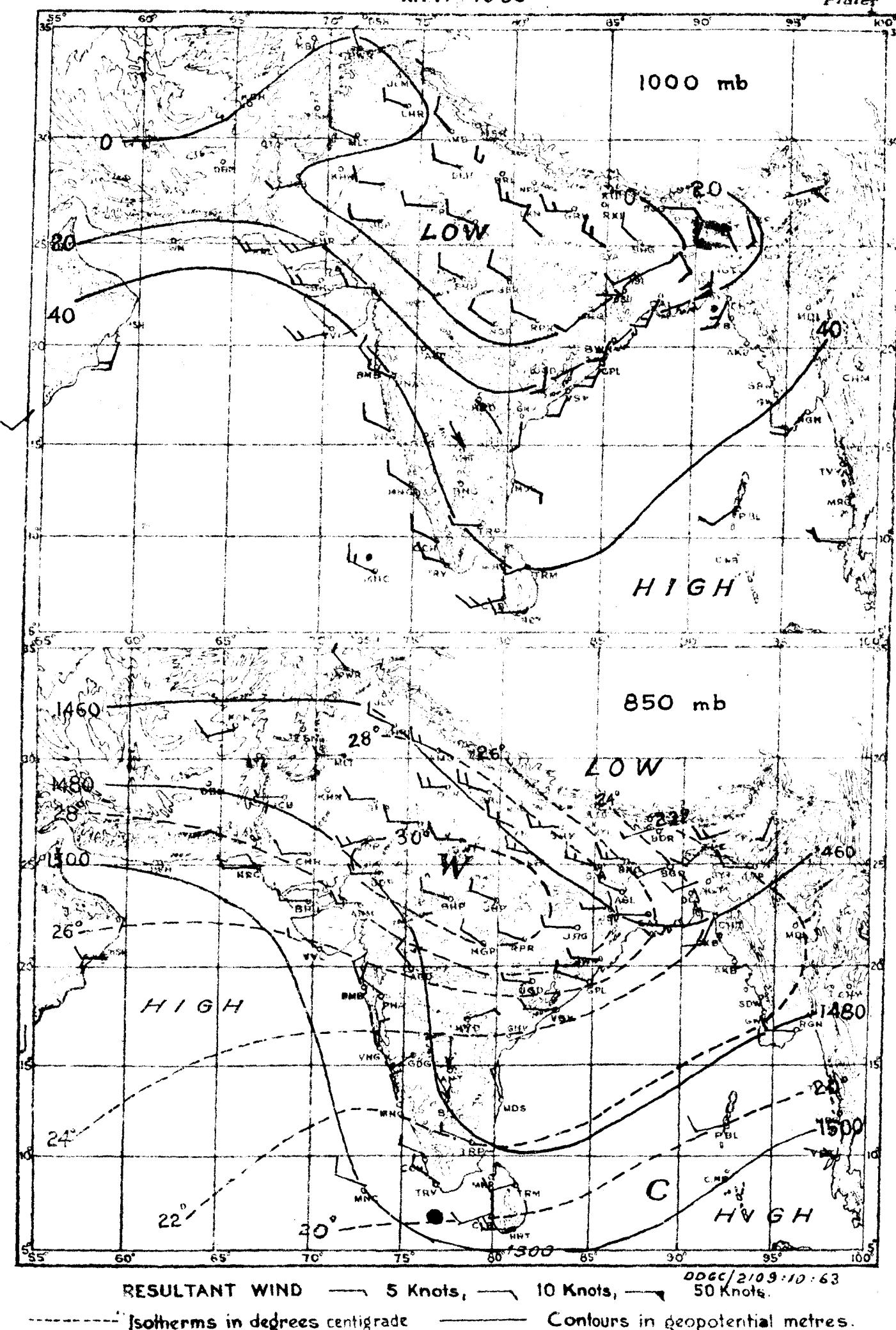
Means are not worked out for less than five observations at standard pressure surfaces.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D.

MAY 1958

Plate 1



DOGC/2109/10-63

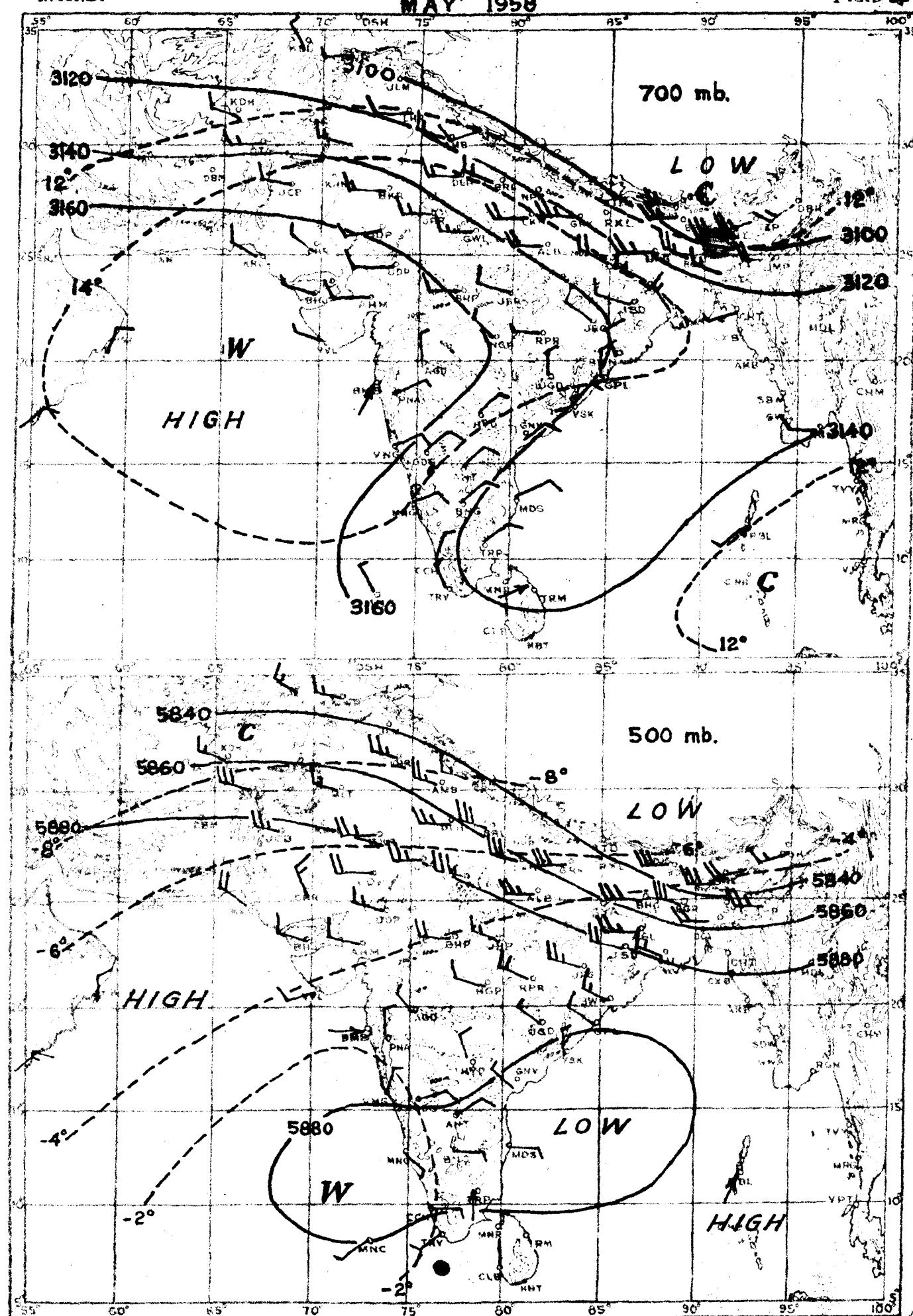
G.F.P. POONA, 1963

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D.

MAY 1958

Plate II



RESULTANT WIND — 5 Knots, — 10 Knots, — 50 Knots.

— Isotherms in degrees centigrade — Contours in geopotential metres.

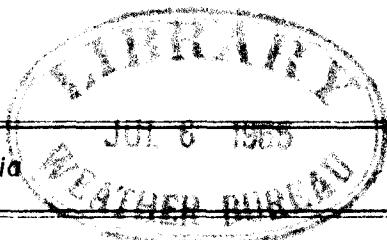
G.P.E.A. POKHARA, 1963

INDIA WEATHER REVIEW, 1958

Monthly Weather Report

June

Published by authority of the Government of India

*Chief features :*

- (1) Delayed onset of the monsoon and
- (2) A heat wave in north India.

Upto the end of May, the southwest monsoon had not established itself over any parts of the country except the South Bay Islands. Also, it did not make any significant progress northwards during the first week of June. Later, it moved northwards, its pace becoming a little rapid after the development of a trough of low pressure in the east Arabian Sea on 13th. The monsoon advanced into Kerala and south coastal Mysore on 14th, as much as about a fortnight later than the normal time. It gradually extended northwards and advanced into the remaining parts of Mysore State, into Telangana and the Bombay State during the third week of June. It extended into Vidarbha and south Madhya Pradesh on 24th and into north Madhya Pradesh towards the end of the month. The Bay branch of the monsoon, after advancing into Assam and Sub-Himalayan West Bengal on 16th June remained stationary for about a week. Later it advanced into Gangetic West Bengal, Bihar and Orissa on 24th and into Uttar Pradesh and east Rajasthan towards the end of the month.

The west coast experienced active to vigorous monsoon conditions during the last ten days of the month, the rainfall being particularly heavy in the Konkan from 25th to 28th and in coastal Mysore from 28th to 30th. Thana (Konkan) recorded 39 cms of rain on 26th.

During the month, eight western disturbances moved in the upper air across the extreme north of the country. In association with these, there was local rain in Kashmir on 6th, 13th, 18th, 20th and 22nd.

Moderate to severe heat wave prevailed over parts of north India on most days until relief was provided by the onset of the monsoon during the last week of the month. The heat wave was particularly severe in Bihar State and parts of Uttar Pradesh. According to press reports, the heat wave claimed over 350 human lives in Bihar State and caused about 100 deaths in Uttar Pradesh. Day temperatures were also markedly above normal in Maharashtra, Vidarbha, and Andhra Pradesh on some days during the first half of the month, Kakinada recording a maximum temperature of 46°C. (11°C. above normal) on the afternoon of 14th.

Rainfall during the month was in large excess in the Konkan, in slight excess in Sub-Himalayan West Bengal, coastal and south Mysore and Kerala and normal in the Bay Islands, Gujarat and the Arabian Sea Islands. It was in slight deficit in Jammu and Kashmir and north Mysore and moderate deficit over the rest of the country outside Gangetic West Bengal, Orissa, West Uttar Pradesh, the Punjab (I), West Rajasthan, Telangana and the Madras State where it was in large deficit.

Mean maximum temperature was below normal in Jammu and Kashmir, normal in the Bay Islands, the Konkan the Madras State, coastal and south Mysore, Kerala, and the Arabian Sea Islands and in excess over the rest of the country. Mean minimum temperature was normal in the Bay Islands, Assam, Sub-Himalayan West Bengal, the Punjab (I) Jammu and Kashmir, east Rajasthan, Gujarat, Saurashtra and Kutch, the Konkan, Maharashtra, the Mysore State, Kerala and the Arabian Sea Islands and above normal over the rest of the country.

Mean relative humidity in the morning was below normal in Chota Nagpur, Bihar, Uttar Pradesh, Jammu and Kashmir, west Rajasthan, Madhya Pradesh, Vidarbha and Telangana and normal over the rest of the country outside Rayalaseema where it was above normal.

"Copyright © 1959 by Manager of Publications, Government of India, Delhi-8."

Mean cloud amount in the morning was normal over the country outside Gangetic West Bengal, Bihar, Uttar Pradesh, the Punjab(I), west Rajasthan, Maharashtra, and Telangana where it was below normal.

Normal data for Himachal Pradesh are absent.

Table I contains the divisional and sub-divisional means of rainfall, temperatures, humidity and cloud amount for the 14 chief political divisions and the 30 sub-divisions. The stations whose observations are used for preparing these means are given in the subsequent tables.

The highest maximum temperature given for any station in the accompanying tables is that recorded within the 24 hours ending at 0830 hrs. IST of the date noted in the succeeding column; similarly the heaviest fall in 24 hours for any station denotes the amount recorded during the 24 hours ending at 0830 hrs. IST of the date given in the succeeding column.

POONA 5,

The 18th August 1960.

C. RAMASWAMY,

for Director General of Observatories.

Errata to M.W.R. June 1958 (Jyaistha 11 Asadha 9 -
1880 Saka)

=====
 Page Station Hour Column For Read*

Table I

283	<u>Division</u>			
	1 Assam (Including Manipur, Tripura)	4	32.1	32.9
283	8 Rajasthan	2	-8.7	-28.7
283	9 Madhya Pradesh	4	9.9	39.9
283	9 Madhya Pradesh	7	Blank	36
283	9 Madhya Pradesh	8, 2nd line	Blank	-0.3
283	Mean of India (excluding Jammu and Kashmir and Himachal Pradesh)	8, 2nd line	Blank	-0.5

283	<u>Sub-division</u>			
	14 Rajasthan (East)	6	not clear	52
	29 Kerala	2	772.2	772.7

Table II

284	Port Blair	12	9.0	-9.0
284	Digboi	2	not clear	33.0
284	Dibrugarh	11	362.2	362.0
284	Golaghat	5	not clear	4 days
284	Lumding	4	not clear	37.8
284	Bagdogra	6	not clear	23.7
284	Barrackpore	19	Blank	---
284	Saugor Island	11	not clear	36.3
285	Ranchi (C.W.O.)	18	(1) 12.8	(1) 12.8
285	Muzaffarpur	12	50.9	-50.9
285	Foot note		(1) Mean of 19 days	(1) Mean of 19 days
286	Heading	29	Line	Line squall
286	New Delhi	29	0	1
286	Chandigarh	13	not clear	55.9
286	Bikaner	4	41.7	45.7
286	Jhalawar	7	-0.7	+0.7
286	Guna	10	103.8	103.0
286	Neemuch	10	0.2	0
287	Surat	5	not clear	16
287	Devgad	3	not clear	+ 1.3
288	Rentachintala	1	Rentachintala after Kolhapur	delete
288	Chanda	17	15.7	15.8
288	Kakinada	8	21.9	23.9
288	Ramagundam	25	0	3
288	Tiruchirapalli	8	24.0	24.9
290	Yatung (Chumbi)	13	10.7	10.2
291	Dandeldhura	15	blank	7
291	Taplejung	13	34.3	35.3
291	Geyzing	26	9	0

Table III

292	Dibrugarh (Mohanbari Aerodrome)	0830	10	not clear	31.3
292	North Lakhimpur	0830	7	27.8	27.9

Page	Station	Hour	Column	For	Read
<u>Table III (contd.)</u>					
292	Gonpur	0830	16	0	delete
292	Gohpur	1730	16	0	delete
292	Chaparmukh	0830	16	0	delete
292	Chaparmukh	1730	16	0	delete
293	Heading	-	28	blank	Variable
293	Cooch Behar (C.W.O.)	1730	15	3.9	3.8
293	Foot note			Mean of 25 days	(f) Mean of 25 days
294	Purulia	0830	8	36.0	26.0
294	Asensol	0830	4	999.2	999.6
295	Keonjhar	0830	4	996.9	999.9
295	Keonjhar	1730	4	993.5	996.5
295	Patna (Aerodrome)	1730	10	22.1	22.3
295	Gaya	0830	10	21.7	21.8
295	Gaya	1730	8	24.9	24.4
295	Jamui	0830	28	blank	0
297	Heading	-	16	61 or more	62 or more
300	Indore	1130	4	1000.0	1000.7
300	Indore	1730	4	997.8	997.0
300	Chhindwara	1730	15	5.9	5.4
300	Champa	0830	9	18.6	18.0
301	Baroda (Aerodrome)	1730	4	990.0	999.0
301	Bhuj (P.B.O.)	0830	6	blank	+ 0.3
301	Surendranagar	1730	27	blank	0
302	Bhavnagar	0830	5	1010.8	1001.8
302	Mahuva	0830	10	24.3	34.3
302	Parbhani	0830	4,5	1003.5, ..	1003.7, 957.5
				957.3	
302	Parbhani	1730	4,5	997.0, 952.2	997.2, 952.4
304	Kakinada	1730	5	997.8	997.6
304	Visakhapatnam	1730	26	blank	2
304	Hakimpet	0530	24	5	8
304	Hanamkonda	0830	10	20.9	25.9
304	Rayalaseema	between -		not clear	Rayalaseema
Khammameth & Arogyavaram					
304	Kurnool	1730	4	995.5	999.5
304	Palayamcottai	1730	16	9	0
305	Coimbatore (Feelamedu Aerodrome)	0530	19	3	0
305	Cuddalore	0830	26	blank	0
305	Cuddalore	2330	15	5.	5.8
306	Bangalore (Aerodrome)	1130	13	6.	6.1
307	Aijal	0830	1	Aijal +	Aijal
307	Aijal	0830	28	blank	0
307	Aijal	1730	28	9	0
307	Katmandu	0830	8	0.2	20.2
307	Mahabaleshwar	0830	17	blank	1
307	Foot note	-	-	**Data given as addenda in December, 1958 issue.	**Data given as addenda in December, 1958 issue.
308	Bokaro	1730	21	9	3
308	Hazaribagh	1730	13	44	4.4

- 3 -

Page	Station	Hour	Column	For	Read
<u>Table III (contd.)</u>					
308	Khijrawan	0830	16,17	blank, not clear	0, 5
308	Khijrawan	1730	16	blank	0
308	Dharoi	1730	11	61	32
308	Foot note			+ Observations + for 24 days	+ Observations + for 21 days

Page	Station	Time in IST.	Ht.in km.	Entry under column	Existing entry	Correct entry
311	Santacruz			Ht.of anemometer	14	27
313	Anantapur	0530	5.4	D	090	099
314	Bangalore	0530	4.5	D	31	031
314	Bangalore	0530	7.2	D	14	014
314	Bengalore	0530	9.0	v	10.0	23.0
314	Bangalore	0530	9.0	D	230	100
314	Bangalore	2330	5.4	D	57	057
314	Bangalore	2330	6.0	D	53	053
314	Bangalore	2330	7.2	D	32	032
316	Bhuj	1730	Surface	v	8.9	9.8
317	Gannavaram	0530	5.4	v	5.4	4.5
321	Jodhpur	2330	0.3	n	25	28
321	Jodhpur	2330	0.3	v	17.0	15.1
321	Jodhpur	2330	0.3	v	12.8	11.5
321	Madras	2330	0.15 a.g.	V	17.7	17.0
324	Santa Cruz	0530*	5.4	D	094	035

1	Rainfall (in millimetres)	Percentage of normal	Relative humidity %		Cloud			1	Rainfall (millimetres)	Percentage of normal	Relative humidity %		Cloud				
			Mean temperature °C	minimum temperature °C	0830 hrs. I.S.T.	1730 hrs. I.S.T.	0830 hrs. I.S.T.				Mean temperature °C	minimum temperature °C	0830 hrs. I.S.T.	1730 hrs. I.S.T.	0830 hrs. I.S.T.		
Division																	
1. Assam (Including Manipur, Tripura).	293.9	70	32.1	25.3	81	75	5.5	4.8	9. Madhya Pradesh	103.0	61	19.9	27.5	51	3	3.9	5.2
	-127.6		-1.6	+0.9	-3		-0.8			-66.0		+3.2	+1.5	-9			
2. West Bengal	251.6	71	36.9	27.2	76	67	4.0	4.7	10. Bombay	300.2	127	36.3	26.5	72	55	4.1	4.3
	-103.2		+3.2	+1.3	-4		-1.6			+63.2		+1.8	+1.0	-2		-1.0	
3. Orissa	98.4	46	36.7	28.3	73	66	5.2	6.3	11. Andhra Pradesh	47.3	48	38.9	28.2	64	52	4.9	5.1
	-117.2		+2.5	+1.7	-3		-0.2			-51.9		+2.6	+1.7	-4		-0.5	
4. Bihar	100.6	54	39.4	27.5	60	47	3.4	4.7	12. Madras State	18.9	47	36.0	26.8	66	57	5.4	6.1
	-86.7		+4.3	+1.5	-10		-1.5			-20.9		+0.5	+1.1	+1		+1.0	
5. Uttar Pradesh	53.8	41	41.9	28.6	46	31	2.3	2.4	13. Mysore	307.4	107	32.2	22.4	79	59	5.9	5.9
	-68.7		+3.6	+1.3	-13		-0.9			+20.1		+1.4	+0.7	0		+0.2	
6. Punjab (India) (Including Himachal Pradesh and Delhi).*	9.1	17	42.2	28.1	44	24	1.6	1.9	14. Kerala	772.7	122	29.9	24.1	89	83	7.0	6.8
	-15.0		+1.9	+0.2	-3		-0.4			+139.9		+0.7	+0.3	+2		+0.4	
7. Jammu and Kashmir.	38.7	77	26.4	13.1	47	43	2.2	4.3	Mean of India (Excluding Jammu & Kashmir and Himachal Pradesh)	147.0	81	38.2	27.1	62	47	3.9	4.4
	-11.7		-1.2	-1.0	-10		-0.3			-34.3		+2.4	+1.1	-5		-0.5	
8. Rajasthan	28.3	50	41.5	28.2	51	27	1.8	2.2									
	-18.7		+2.0	+0.5	-5		-0.4										
Sub-division									Sub-division—Contd.								
1. Bay Islands	543.5	98	29.7	24.1	86	87	7.3	7.0	15. Madhya Pradesh (West).	95.5	67	40.0	27.2	53	35	3.7	5.1
	-9.0		+0.6	+0.2	+4		+0.6			-47.7		+2.6	+1.1	-7		-0.1	
2. Assam (Including Manipur, Tripura).	293.9	70	32.9	25.3	81	75	5.5	4.8	16. Madhya Pradesh (East).	113.7	55	39.7	27.9	49	38	4.1	5.4
	-127.6		+1.6	+0.9	-3		-0.8			-92.2		+4.0	+2.2	-11		-0.6	
3. Sub-Himalayan West Bengal.	657.2	112	34.3	25.7	79	65	5.0	4.2	17. Gujarat	138.1	98	37.4	27.2	73	49	4.5	2.9
	+68.4		+2.1	+0.7	-5		+0.1			-3.0		+1.1	+0.7	-3		-0.6	
4. Gangetic West Bengal.	99.5	37	37.6	27.7	75	68	3.7	4.8	18. Saurashtra and Kutch.	44.6	57	36.9	27.5	76	61	3.9	3.1
	-167.5		+3.5	+1.5	-3		-2.1			-34.2		+1.3	+0.7	+3		-0.5	
5. Orissa	98.4	46	36.7	28.3	73	66	5.2	6.3	19. Konkan	933.3	184	31.9	26.6	81	76	5.1	5.4
	-117.2		+2.5	+1.7	-3		-0.2			+426.4		+0.9	+0.7	-1		-1.0	
6. Chota Nagpur	102.1	53	40.0	27.3	54	44	4.1	6.0	20. Maharashtra	137.3	69	36.5	23.8	69	46	3.5	4.7
	-92.2		+4.5	+1.6	-13		-0.9			-61.4		+2.9	+0.9	-3		-1.7	
7. Bihar	99.8	54	38.9	27.7	65	50	2.8	3.6	21. Vidarbha	103.9	56	40.7	28.2	55	39	3.9	6.0
	-83.9		+4.1	+1.5	-8		-2.0			-80.0		+3.2	+2.0	-7		-0.8	
8. Uttar Pradesh (East).	66.3	51	42.1	28.9	48	32	2.5	2.4	22. Coastal Andhra Pradesh.	53.4	56	38.6	28.8	65	56	5.3	5.5
	-64.1		+4.2	+1.5	-15		-0.9			-42.4		+2.3	+1.5	-5		-0.3	
9. Uttar Pradesh (West).	37.7	34	41.6	28.3	44	29	2.1	2.3	23. Telangana	40.6	30	39.5	27.4	56	38	4.0	4.8
	-74.6		+3.1	+1.1	-11		-0.8			-96.9		+3.9	+2.4	-9		-1.1	
10. Punjab (India) (Including Delhi).	9.1	17	42.2	28.1	44	24	1.6	1.9	24. Rayalaseema	41.6	61	38.7	27.3	71	57	4.9	4.5
	-45.0		+1.9	+0.2	-3		-0.4			-26.1		+1.7	+1.2	+9		-0.3	
11. Himachal Pradesh	49.9	..	38.9	22.1	41	23	1.8	2.5	25. Madras State	18.9	47	36.0	26.8	66	57	4.5	6.1
	..	..	..	..	..	..	..			-20.9		+0.5	+1.1	+1		+1.0	
12. Jammu and Kashmir.	38.7	77	26.4	13.1	47	43	2.2	4.3	26. Coastal Mysore	1093.9	111	30.1	24.4	80	81	7.1	6.9
	-11.7		-1.2	-1.0	-10		-0.3			+109.7		+0.7	+0.5	+1		+0.3	
13. Rajasthan (West)	5.7	15	42.7	29.0	51	23	1.3	1.0	27. Mysore (North)	111.0	89	35.2	23.1	73	51	4.5	5.7
	-33.1		+2.1	+1.1	-6		-0.7			-12.9		+2.5	+1.4	-3		+0.4	
14. Rajasthan (East)	50.8	68	40.5	27.6	52	31	2.3	3.2	28. Mysore (South)	143.1	112	29.9	20.9	81	61	6.0	5.8
	-24.3		+1.9	+0.1	-4		-0.2			+15.1		+0.6	+0.4	+3		-0.1	
									29. Kerala	772.2	122	29.9	24.1	89	83	7.0	6.8
										+139.9		+0.7	+0.3	+2		+0.4	
									30. Arabian Sea Islands	307.5	93	31.3	25.8	83	78	6.7	7.2
										-24.1		+1.0	+0.4	+1		+0.8	

NOTE.—The entries in the second line for each division and sub-division indicate departures from normal.

*Data of Himachal Pradesh not included.

284 TABLE II.—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—JUNE, 1958 (JYAISTHA II—ASADHA 9, 1880 SAKA)

Division and station	Air temperature in °C								Rainfall in millimetres						No. of rainy days (2.5 mm. or more)		Wind speed, Kms. per hour		Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.3 mm. or more)	Snow or sleet	Thunder heard	Fog	Dust storm	Ground frost	Squall	Light squall			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Bay Islands Maya Bandar	28.4	..	30.1	3	24.3	..	21.1	2	250.2	471.8	..	99.8	5	26	..	16.8	11.4	..	26	0	0	0	0	0	0	0	0	0	
Long Island	30.4	..	31.9	19	24.7	..	21.5	5	237.4	498.8	..	65.5	2	20	..	7.5	3.7	..	23	0	0	4	0	0	0	0	0	0	
Port Blair	29.7	+0.6	31.1	4	24.1	+0.2	21.9	5	189.1	543.5	9.0	63.7	23	23	+1.5	19.8	15.2	-6.8	29	0	0	8	0	0	0	0	0	0	
Gar Nicobar	30.4	..	31.8	4	24.4	..	22.5	30	232.9	714.1	..	76.8	17	25	..	7.9	5.4	..	28	0	0	0	0	0	0	0	0	0	
Nancowry	28.0	..	29.9	5	24.7	..	22.1	30	164.9	504.2	..	108.0	30	22	..	12.7	10.0	..	27	0	0	1	0	0	0	0	0	0	
Kondul	23.5	..	31.1	24	25.2	..	22.8	30	240.3	623.3	..	88.2	15	22	..	11.1	10.2	..	25	0	0	6	0	0	0	0	0	0	
Assam (including Manipur, Tripura)																													
Pasighat	32.7	..	36.2	6	24.3	..	22.9	4 days	130.3	511.2	..	116.9	28	13	..	4.9	5.4	..	19	0	0	7	0	0	0	0	0	0	
Digboi	33.0	..	36.7	11	21.6	..	22.9	15	118.3	205.0	..	59.6	30	13	..	..	..	..	17	0	0	0	0	0	0	0	0	0
Dibrugarh	32.8	+2.2	36.0	11	24.7	+1.3	22.3	22	88.8	362.2	-137.6	66.5	27	13	-6.6	3.7	2.4	+0.5	16	0	0	9	0	0	0	0	0	0	
Dibrugarh (Mohanbari Aerodrome)	32.4	..	35.7	11	24.8	..	23.3	21	147.4	503.7	..	103.9	26	15	..	6.0	3.8	..	23	0	0	14	1	0	0	0	0	0	
North Lakhimpur	32.5	..	35.6	11	24.5	..	22.2	15	40.7	467.1	..	7.1	19	15	..	10.8	7.4	..	19	0	0	12	0	0	0	0	0	0	
Sibsagar	33.3	+1.9	36.3	11	25.9	+1.4	23.9	19	27.2	110.7	-273.6	32.4	20	11	-6.1	5.1	3.8	+0.3	17	0	0	0	0	0	0	0	0	0	
Jorhat	..	..	..	..	25.4	..	24.3	19,20	48.2	229.0	..	55.9	17	14	..	..	..	..	16	0	0	10	0	0	0	0	0	0
Golaghat	33.3	..	36.7	± days	..	..	..	..	74.6	170.4	..	53.9	20	13	..	..	..	..	14	0	0	0	0	0	0	0	0	0
Gohpur (R)
Tezpur	33.1	+1.7	35.6	8,12	25.3	+0.8	21.2	20	85.4	234.5	-73.9	37.3	28	13	-3.0	5.5	3.9	+0.8	20	0	0	6	0	0	0	0	0	0	
Tezpur (P.B.O.)	32.7	..	34.9	8	25.3	..	22.9	21	82.4	316.0	..	17.5	25	15	..	4.5	2.5	..	18	0	0	14	0	0	0	0	0	0	
Majbat	..	..	..	..	..	..	..	..	58.0	275.4	..	64.8	21	13	..	7.2	4.0	..	15	0	0	10	0	0	0	0	0	0
Chaparmukhi (R)
Tangla	32.9	..	35.7	6	21.8	..	22.1	4	82.8	522.4	..	115.8	25	13	..	5.4	2.8	..	13	0	0	3	0	0	0	0	0	0	
Gauhati	32.9	+1.3	36.1	13	25.9	+1.2	22.3	21,22	52.8	128.4	-184.0	55.8	20	10	-4.7	4.2	3.2	+0.9	16	0	0	3	0	0	0	0	0	0	
Gauhati (Bhorjor Aerodrome)	32.2	..	34.4	4,12	25.3	..	22.1	3	56.4	260.9	..	157.8	20	13	..	7.1	4.7	..	18	0	0	22	0	0	0	0	0	0	
Rangiya	33.2	..	35.6	12	..	..	..	..	41.9	431.5	..	121.9	26	11	..	..	..	..	12	0	0	0	0	0	0	0	0	0
Goalpara	32.1	..	35.0	4	23.4	..	19.9	8	143.8	368.1	..	87.6	20	18	..	5.4	3.4	..	21	0	0	0	0	0	0	0	0	0	
Dhubri	31.6	+1.8	34.4	8	25.1	+0.6	22.5	21	28.4	545.2	-58.2	152.4	19	18	-0.1	5.8	5.6	-1.3	18	0	0	0	0	0	0	0	0	0	
(Dhubri) Rupai	32.1	..	31.3	4	21.0	..	20.4	3	35.8	715.3	..	149.8	19	19	..	6.0	4.3	..	22	0	0	22	0	0	0	0	0	0	
Lira	30.4	..	33.6	3	23.3	..	20.9	5	176.8	793.9	..	74.4	21	23	..	8.2	8.1	..	25	0	0	0	0	0	0	0	0	0	
Agartala	33.3	..	36.3	15,6	25.7	..	23.3	20	149.0	163.4	..	38.7	16	12	..	10.6	8.7	..	16	0	0	11	0	0	0	0	0	0	
Silchar	32.0	+0.2	35.3	2	25.2	+0.6	22.2	2	175.3	504.1	-84.4	160.8	20	17	-4.3	0.3	0.1	-2.6	23	0	0	12	0	0	0	0	0	0	
Silchar (Kumbhigram Aerodrome)	32.6	..	35.0	25	24.4	..	22.3	20	94.3	646.6	..	123.4	16	18	..	6.6	5.7	..	20	0	0	18	0	0	0	0	0	0	
Imphal	29.8	..	33.6	8	21.4	..	18.1	4	83.6	255.8	..	59.0	17	16	..	10.0	6.1	..	18	0	0	7	0	0	0	0	0	0	
Itaflong	28.8	..	31.4	8	21.2	..	18.3	21,22	92.8	32.0	..	92.4	20	13	..	14.8	12.3	..	17	0	0	0	0	0	0	0	0	0	
Lumding	34.5	+2.4	37.8	4	24.6	+0.5	23.0	19,4	56.2	163.4	-81.7	35.3	24	11	-2.7	4.7	2.2	..	13	0	0	1	0	0	0	0	0	0	
Sub Himalayan West Bengal																													
Cooch Behar (L.W.O.)	31.8	..	33.9	8	23.8	..	21.5	1	70.4	993.1	+134.8	286.2	19	22	+1.4	6.7	5.6	..	26	0	0	27	0	0	0	0	0	1	
Jalpaiguri	31.0	-0.4	33.8	4	24.1	-0.2	22.4	5	48.4	953.3	+294.4	175.0	19	23	+3.9	10.4	8.6	+5.2	25	0	0	24	0	0	0	0	0	0	
Bagdogra	32.3	..	35.8	1	21.7	..	21.5	14	33.1	759.8	..	175.4	19	19	..	15.7	12.2	..	22	0	0	23	0	0	0	0	0	0	
Malda	37.6	+4.5	44.4	3	27.2	+1.5	23.2	7	10.8	25.3	-224.1	10.7	7	4	-7.5	10.1	8.5	-0.2	8	0	0	11	0	0	0	0	0	1	
Ganggetic West Bengal
Dum Dum	36.4	..	41.7	5	26.9	..</td																							

Division and station	Air temperature in °C									Rainfall in millimetres						No. of rainy days (2.5 mm. or more)	Wind speed, Km. per hour				Weather phenomena—No. of days with									
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total rainfall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.3 mm. or more)	Snow or sleet	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Lipe squall				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
Orissa—(contd.)																														
Puri . . .	32.7	+1.0	34.4	14	28.6	+1.4	23.4	23	34.3	131.2	-58.3	43.0	8	7	-1.1	26.0	23.5	+4.0	8	0	0	6	0	0	0	0	0	0		
Gopalpur . . .	33.9	+1.8	41.9	14	28.0	+1.2	25.2	23	18.5	16.0	-122.7	8.8	11	2	-5.6	..	..	..	11	0	0	0	0	0	0	4	0	0
Koraput . . .	32.7	..	37.8	7,11	23.1	..	20.0	25	43.4	140.2	..	51.3	20	9	..	..	..	..	11	0	0	0	0	0	0	0	0	0
Titilagarh . . .	37.3	..	44.5	6	28.6	..	24.1	22	12.2	123.6	..	75.7	29	5	..	7.4	5.9	..	5	0	0	5	0	0	0	0	0	0		
Bolangir . . .	40.4	..	44.9	6	29.3	..	23.2	23	68.6	88.7	..	68.6	25	4	..	13.6	10.8	..	5	0	0	3	0	0	0	0	0	0		
Angul . . .	39.8	+4.3	46.1	6	28.0	+1.9	23.2	23	44.1	120.8	-96.1	41.5	26	6	-5.6	14.7	11.0	+2.6	8	0	0	13	0	4	0	0	0	0		
Keonjhar . . .	37.6	..	43.3	7	25.8	..	21.6	17	34.0	124.6	..	44.2	22	8	..	10.8	5.9	..	8	0	0	15	0	0	0	0	0	0		
Sambalpur . . .	40.5	+4.1	45.9	6	29.2	+2.3	24.8	23	47.5	101.8	-154.5	49.0	23	5	-5.7	9.1	7.2	+0.8	8	0	0	0	0	0	0	0	0	0		
Jharsuguda . . .	40.9	..	45.6	6	28.5	..	22.8	23	185.4	228.8	..	159.2	23	5	..	11.9	9.0	..	7	0	0	12	0	0	0	0	2	0		
Chota Nagpur																														
Jamshedpur . . .	39.9	+3.8	45.2	6	28.4	+1.7	24.6	8	57.2	81.8	-108.9	23.6	8	7	-3.7	10.0	9.0	+1.6	7	0	0	8	0	2	0	0	0	0		
Jamshedpur (P.B.O.)	40.7	..	46.6	6	28.2	..	25.4	22	42.2	67.5	..	35.5	8	7	..	4.1	3.0	..	9	0	0	13	0	0	0	3	0	0		
Chaibasa . . .	40.5	+4.4	46.1	6	28.0	+1.8	24.2	17	17.0	75.7	-122.2	47.2	17	4	-6.7	5.3	4.1	-0.2	9	0	0	8	0	1	0	0	0	0		
Ranchi . . .	38.2	+4.9	42.8	6	25.3	+1.2	22.1	24	109.6	136.0	-82.2	55.6	17	8	-3.4	7.1	5.0	-3.9	8	0	0	0	0	0	0	0	0	0		
Ranchi (C.W.O.)	37.5	..	42.3	6	25.5	..	21.7	24	71.6	117.9	..	38.1	23	6	..	16.1	12.8	..	10	0	0	11	0	0	0	0	0	0		
Daltonganj . . .	42.4	+4.5	46.1	6	28.8	+1.6	21.4	4	43.1	66.9	-86.0	30.3	23	6	-2.2	9.8	6.2	-1.2	6	0	0	0	0	0	0	0	0	0		
Hazaribagh . . .	39.0	+5.1	43.4	6	26.1	+1.6	21.3	21	10.8	150.0	-61.6	74.4	21	6	-4.7	12.8	10.3	-0.6	9	0	0	11	0	0	0	0	0	0		
Dhanbad . . .	39.7	..	45.9	6	27.6	..	23.5	26	100.1	120.5	..	75.4	26	4	..	12.0	10.1	..	7	0	0	11	0	3	0	0	0	0		
Bihar																														
Purnea . . .	36.3	+3.3	42.8	3	25.9	+0.7	22.8	18	23.3	184.7	-75.1	79.3	22	9	-2.8	9.6	8.1	+3.3	12	0	0	5	0	0	0	0	0	0		
Forbesganj . . .	36.0	..	41.1	4	25.6	..	22.8	7,14	6.2	261.2	..	61.0	27	10	..	11.5	10.3	..	16	0	0	15	0	0	0	0	1	0		
Darbhanga . . .	37.5	+3.7	43.1	3	27.0	+1.2	22.8	23	81.7	279.7	+87.2	95.0	23	7	-1.8	11.2	10.4	+3.5	7	0	0	0	0	0	0	0	0	0		
Motihari (R)	144.7	-50.9	63.5	12	5	-3.1	5	
Muzaffarpur	43.7	-106.9	33.4	28	2	-5.2	5	
Chapra	75.2	-82.3	33.3	7	4	-3.5	6	
Arrah	5.4	14.3	-167.1	4.4	22	3	-5.0	10.5	9.1	+1.1	5	0	0	4	0	1	0	0	0	0	
Patna . . .	40.5	+4.8	44.7	5	28.3	+1.7	25.1	7	5.4	14.3	-167.1	4.4	22	5	..	11.7	9.3	..	7	0	0	6	0	0	0	0	0	0		
Patna (Aerodrome)	40.7	..	45.1	5	28.1	..	25.0	22	32.7	64.1	..	18.5	22	5	..	11.7	9.3	..	7	0	0	6	0	0	0	0	0	0		
Dehri . . .	42.1	..	46.1	6	29.6	..	25.7	29	20.1	47.2	-89.2	16.3	27	6	-0.9	9.6	7.2	..	6	0	0	0	0	0	0	0	0	0		
Gaya . . .	42.1	+4.6	45.6	3	29.5	+2.1	22.7	24	9.6	54.3	-109.5	36.4	24	4	-3.5	12.3	9.5	-0.3	5	0	0	8	0	0	0	0	3	0		
Jamui . . .	41.2	..	45.6	3	29.1	..	24.4	27	18.1	43.3	..	16.4	22	4	..	9.3	7.8	..	5	0	0	4	0	0	0	0	0	0		
Dunia . . .	39.1	+4.6	45.3	3	27.9	+2.1	22.2	8	67.1	94.0	-160.0	62.5	26	3	-8.9	9.5	8.0	+3.5	4	0	0	10	0	0	0	0	5	0		
Bhagalpur . . .	37.8	..	43.4	5,6	27.4	..	23.1	18	2.0	99.0	..	67.0	7	4	..	8.2	6.6	..	7	0	0	9	0	0	0	0	0	0		
Sabour . . .	38.1	+3.4	44.5	3,4	27.4	+1.2	22.8	7	6.1	104.9	-52.1	72.4	7	5	-2.8	13.3	10.6	+1.4	7	0	0	9	0	0	0	0	0	0		
Uttar Pradesh (East)																														
Gonda . . .	41.8	+5.2	45.6	6	26.9	+0.2	21.7	3,4	15.3	21.6	-164.1	12.0	29	3	-5.3	7.3	6.2	-1.8	3	0	0	0	0	0	0	0	0	0		
Nautanwa . . .	38.4	..	44.4	2	27.2	..	21.7	21	66.1	126.1	..	61.6	29	4	..	11.5	10.0	..	5	0	0	0	3	0	0	0	0	0		
Gorakhpur . . .	42.1	+6.0	46.5	2	27.5	+1.3	21.7	23,30	16.2	39.9	-151.9	14.0	22	5	-3.3	9.6	7.7	+3.2	5	0	0	2	0	0	0	0	0	0		
Azamgarh . . .	41.9	..	46.0	6	28.8	..	23.3	24	26.8	46.8	..	22.5	24	5	..	..	..	5	0	0	0	0	0	0	0	0	0	0
Ballia . . .	41.5	..	45.5	7	27.8	..	24.3	4	69.0	111.2	..	99.8	27	3	..	9.6	7.2	..	4	0	0	1	0	0	0	0	0	0		
Varanasi (Banaras)	42.1	+3.8	45.8	6	29.7	+1.9	24.8	24	5.4	37.4	-78.4	13.0	27	4	-2.0	10.1	6.7	+0.3	6	0	0	2	0	1	0	0	0	0		
Varanasi (Banaras) (Babatpur Aerodrome)	41.7	..	45.4	6	29.2	..	21.7	6	14.2	57.4	..	25.0	27	3	..	16.4	11.6	..	5	0										

286 TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—JUNE, 1958 (JYAISTA II—ASADHA 9, 1880 SAKA)

Division and station	Air temperature in °C										Rainfall in millimetres.					No. of rainy days (2.5 mm or more)			Wind speed, Kms. per hour		Weather phenomena—No. of days with									
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.3 mm. or more)	Show or sleet	Hail	Thunder heard	Fog	Dist-storm	Ground frost	Gale	Squall	Ice		
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29		
1																														
Punjab (India) (Including Delhi) New Delhi . . .	41.1	+0.9	44.7	17	29.2	+0.5	23.5	2	6.4	7.9	-69.1	6.2	13	1	+3.2	20.0	17.1	+2.3	3	0	0	5	0	5	0	0	3	0		
Hissar . . .	43.1	+2.2	47.4	17	27.7	-0.2	20.6	7	0	19.0	-13.0	12.2	7	2	-0.9	11.9	10.5	+1.0	5	0	1	9	0	8	0	0	0	0	0	
Karnal . . .	41.2	..	45.6	17	26.4	..	20.7	1,2	2.1	2.1	..	2.1	13	0	..	..	..	..	1	0	0	1	0	6	0	0	0	0	0
Patiala . . .	41.4	..	45.8	17	26.6	..	22.2	1,21	0	9.3	-20.7	4.4	21	1	-1.0	12.9	10.3	..	4	0	0	6	0	0	0	0	0	0	0	
Ambala . . .	42.3	+2.5	47.0	17	27.4	+0.3	21.8	1	0	0	-77.2	0	..	0	-4.4	10.4	(b) 10.1	+3.8	0	0	0	0	0	0	0	0	0	0	0	
Ambala (Aerodrome)	41.5	..	46.2	17	27.4	..	21.7	1	1.3	1.5	..	1.2	13	0	..	..	..	..	2	0	0	7	0	6	0	0	0	0	0
Chandigarh . . .	40.8	..	45.3	17	27.8	..	20.4	28	4.1	61.0	..	55.9	28	2	..	..	..	..	4	0	0	0	0	0	0	0	0	0	0
Ludhiana . . .	43.1	+2.7	47.9	17	26.9	-0.3	20.9	1	0	8.4	-49.5	5.1	21	2	-1.5	3.4	2.1	-1.8	2	0	0	0	0	0	0	0	0	0	0	
Ferozepur . . .	41.6	..	45.1	18,26	25.6	..	15.5	1	0	49.8	..	26.4	22	2	..	4.9	3.1	..	2	0	0	2	0	4	0	0	0	0	0	
Amritsar . . .	40.8	..	44.5	18	24.9	..	15.6	1	8.0	54.3	..	39.6	22	2	..	13.3	10.3	..	3	0	0	7	0	8	0	0	2	1		
Pathankot . . .	41.1	..	44.8	17,18	25.5	..	21.8	13	14.4	14.4	..	8.4	28	2	..	7.4	5.5	..	2	0	0	0	0	0	0	0	0	0	0	
Pathankot (Aerodrome)	41.6	..	45.7	17	26.3	..	19.8	22	33.3	39.2	..	22.3	22	2	..	15.1	11.8	..	7	0	1	12	0	5	0	0	0	0	0	
Himachal Pradesh																														
Bilaspur . . .	39.6	..	44.2	17	23.1	..	16.7	2	29.4	53.0	..	44.6	28	2	..	9.1	6.7	..	5	0	0	8	0	0	0	0	0	5	0	
Mandi . . .	38.3	..	42.7	18	21.1	..	15.3	2	11.0	43.7	..	14.5	30	5	..	6.0	4.0	..	8	0	6	10	0	0	0	0	0	0	0	
Jammu and Kashmir																														
Srinagar . . .	27.7	-2.0	33.8	26	13.7	-0.4	8.2	1	3.1	12.9	-22.7	6.4	6	2	-1.4	6.1	5.2	+1.0	6	0	0	4	0	0	0	0	0	0	0	
Gulmarg . . .	18.2	-1.7	24.1	26	5.5	-1.8	0.3	1	32.4	59.7	-30.5	11.6	19	7	-0.8	8.9	5.3	-0.7	14	0	3	13	0	0	0	0	0	0	0	
Sonamarg . . .																														
Dras . . .																														
Kargil . . . (R)																														
Leh . . .	18.2	-3.6	23.9	17	5.2	-1.6	1.3	2	0	1.3	-3.3	1.3	19	0	-0.7	8.4	6.9	+2.9	1	0	0	0	0	0	0	0	0	0	0	
Skardu . . . (R)																														
Gurez . . .																														
Gilgit . . . (R)																														
Misgar . . . (R)																														
Jammu . . .	41.6	+2.4	45.5	17	28.0	-0.2	20.3	27	..	80.8	+9.7	75.6	27	2	-1.8	..	..	..	4	0	0	3	0	0	0	0	0	0	0
Gund . . .																														
Pandras . . .																														
Panamik . . .																														
Khangral . . .																														
Digar . . .																														
Khalatse . . .																														
Mulbik . . . (R)																														
Rajasthan (West) Sri Ganganagar . . .	43.2	+1.6	47.1	27	28.9	+1.5	19.1	1	0.3	4.6	-71.3	3.5	23	1	-1.7	6.9	5.8	-7.9	3	0	0	4	0	7	0	0	0	0	0	
Churu . . .	42.1	..	45.2	26	28.3	..	23.4	1	4.9	31.0	..	11.8	6	5	..	16.6	13.2	..	8	0	0	12	0	4	0	0	0	0	0	
Bikaner . . .	42.9	+1.6	41.7	4	29.6	+0.3	21.8	2	0	0	-30.7	0	..	0	-2.2	13.4	13.2	+1.1	0	0	0	2	0	6	0	0	0	0	0	
Jaisalmer . . .	43.0	..	45.0	3	28.0	..	26.0	11,24	0	0	..	0	..	0	..	26.1	24.2	..	0	0	0	0	0	1	0	0	0	0	0	
Phalodi . . .	41.8	..	44.8	3	29.0	..	23.1	8	0	1.1	-22.3	0.7	8	0	-1.6	27.9	24.4	..	2	0	0	2	0	2	0	0	0	0	0	
Nagaur . . .	41.6	..	44.0	4	28.7	..	20.8	5	0	0	..	0	..	0	..	17.4	16.4	..	0	0	0	6	0	5	0	0	0	0	0	
Jodhpur . . .	42.2	+2.4	45.7	4	29.3	+1.4	23.5	10	0	10.7	-25.4	6.9	29	1	-1.1	18.2	17.5	-2.8	3	0	0	9	0	5	0	0	6	0		
Barmer . . .	42.3	+2.6	45.9	3	28.2	+1.4	26.6	30	3.3	12.1	-15.8	9.8	30	1	-0.5	18.3	16.1	+2.9	2	0	0	4	0	1	0	0	0	0		
Rajasthan (East) Alwar . . .	42.3	..	47.3	4	30.2	..	23.8	3	10.4	13.6	..	7.6	21	2	..	10.0	8.8	..	4	0	0	1	0	0	0	0	0	0	0	
Sikar . . .	41.0	..	43.6	4	27.2	..	21.1	2,3	4.6	17.4	..	4.6	25	3	..	11.8	8.6	..	9	0	0	0	0	0	0	0	0	0	0	
Jaipur . . .	41.3	+1.8	44.4	5	26.8	-0.1	22.8	2	13.4	48.0	-8.9	21.6	29	3	-0.9	11.7	8.5	-1.0	10	0	0	15	0	7	0	0	0	0	0	
Jaipur (Sanganer Aerodrome). Dholpur . . .	40.9	..	43.9	5	26.7	..	22.6	29	15.5	59.5	..	20.0	23	7																

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—JUNE, 1958 (JYAISTA II—ASADHA 9, 1880 SAKA) 287

Division and station	Air temperature in °C.								Rainfall in millimetres				No. of rainy days (2.5 min. or more)		Wind speed, Kms. per hour		Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall in 24 hours	Total fall in 24 hours	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Cloud storm	Gale	Squall	Line squall		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Madhya Pradesh (West)—contd.																												
Ratlam . . .	37.9	..	41.9	3	25.7	..	21.0	8	25.5	113.4	..	66.0	29	4	..	12.6	10.8	..	6	0	0	7	0	0	0	0	0	0
Alirajpur . . .	37.7	..	41.6	2	26.7	..	23.2	23	32.0	62.3	..	34.4	30	2	..	18.1	16.1	..	5	0	0	0	0	0	0	0	0	0
Indore . . .	37.8	+2.0	41.8	2,3,4	24.9	+0.8	18.9	12	62.7	118.6	-28.7	25.4	29	7	-0.3	22.3	21.5	..	12	0	0	10	0	0	0	0	2	0
Bhopal (Bairagarh) .	39.5	+3.0	43.3	17	25.6	+1.6	22.7	27	72.2	139.6	-33.9	36.2	30	6	-3.4	17.4	16.7	+2.5	9	0	0	15	0	0	0	0	4	0
Khandwa . . .	39.9	+2.8	44.5	3	27.6	+1.6	23.4	30	27.0	93.8	-48.4	35.0	20	7	0	16.1	14.7	+1.5	8	0	0	3	0	0	0	0	0	0
Hoshangabad . . .	40.8	+3.7	44.7	2	27.4	+0.9	23.8	27	26.6	91.4	-57.7	25.4	19,21	6	-2.2	3.6(c)	2.6(c)	-3.7	10	0	0	14	0	0	0	0	0	0
Betul . . .	37.1	..	41.8	2	25.5	..	21.9	21	58.8	138.2	..	40.2	28	7	..	11.0	8.4	..	9	0	0	9	0	1	0	0	0	0
Chhindwara . . .	37.5	..	43.0	3	26.0	..	22.3	30	43.4	87.9	..	19.8	20	8	..	13.7	12.6	..	10	0	0	7	0	0	0	0	0	0
Seoni . . .	38.6	+3.5	43.3	2,3	25.9	+1.8	22.6	30	59.9	91.1	-126.3	22.5	20	5	-6.1	10.7	7.3	+0.2	13	0	0	18	0	1	0	0	0	0
Sagar . . .	39.5	+2.8	42.9	16	26.6	+1.3	21.5	22	11.4	84.5	-72.7	35.0	21	7	-1.1	12.9	11.2	..	7	0	0	15	0	0	0	0	0	0
Nowrang . . .	42.1	+2.8	45.6	17	29.2	+1.0	23.9	3	7.7	10.8	-127.4	6.6	27	2	-4.1	10.4	7.4	+1.6	5	0	0	12	0	1	0	0	0	0
Madhya Pradesh (East)																												
Sutna . . .	41.6	+3.5	45.6	17	29.2	+1.5	22.4	4	21.1	89.2	-51.5	62.2	28	3	-3.3	11.8	8.4	-0.8	3	0	0	8	0	1	0	0	0	0
Umaria . . .	41.2	+4.6	45.0	17	28.4	+2.0	23.3	27	27.1	64.0	-116.8	36.0	29	4	-6.0	9.5	7.2	+0.1	4	0	0	2	0	2	0	0	0	0
Jabalpur . . .	40.6	+3.9	44.9	2	27.5	+1.6	23.7	29	77.9	185.6	+7.0	82.8	29	8	-0.8	8.9	6.5	+0.7	11	0	0	11	0	0	0	0	0	0
Mandla . . .	40.1	..	44.4	17	26.0	..	22.6	20	12.4	103.3	..	38.0	29	5	..	10.1	5.9	..	9	0	0	8	0	0	0	0	0	0
Pendra . . .	38.1	+4.2	42.7	5	26.7	+2.4	20.2	23	71.2	132.6	-68.8	46.6	23	9	-2.7	12.0	9.4	..	10	0	0	13	0	0	0	0	0	0
Ambikapur . . .	38.8	..	42.6	3	26.1	..	22.1	23	2.0	86.5	..	18.0	24	8	..	12.1	9.3	..	11	0	0	11	0	0	0	0	0	0
Champa . . .	41.6	..	45.9	5	29.8	..	23.3	23	8.4	97.1	..	41.1	26	4	..	9.7	7.8	..	5	0	0	7	0	2	0	0	0	0
Raigarh . . .	41.5	..	46.0	6	29.5	..	23.9	25	25.0	106.0	..	42.0	26	5	..	9.7	7.2	..	8	0	0	1	0	0	0	0	0	0
Raipur . . .	41.1	+4.5	45.1	17	29.4	+3.2	24.2	29	55.1	109.2	-120.9	33.5	25	6	-3.7	10.8	11.5	-1.9	7	0	0	7	0	0	0	0	0	0
Kanker . . .	38.8	+3.9	43.1	5	28.6	+3.1	22.2	24	12.3	142.1	-122.1	47.0	24	4	-6.3	12.1	10.2	+1.7	5	0	0	7	0	0	0	0	1	0
Jagdalpur (P.B.O.)	36.8	+3.6	41.7	7	25.3	+1.6	21.6	25	17.9	73.4	-172.2	35.6	20	7	-4.3	9.5	7.1	..	11	0	0	13	0	0	0	1	0	0
Gujarat																												
Deesa . . .	40.5	..	45.1	2	27.5	..	24.1	29	16.2	1.8	..	1.2	21	0	..	15.7	14.3	..	2	0	0	1	0	4	0	0	0	0
Idar . . .	30.5	..	43.3	2	24.8	..	20.6	11	15.2	24.1	..	12.0	11	3	..	13.6	14.7	..	3	0	0	0	0	0	0	0	0	0
Ahmedabad . . .	39.9	+1.1	44.3	2	27.7	+0.6	22.3	29	7.8	80.0	-13.0	30.8	29	4	-0.7	11.3	10.1	-1.2	4	0	0	5	0	1	0	4	0	0
Dohad . . .	37.2	+0.1	41.9	2	26.0	+2.0	21.8	23	17.3	52.7	-37.0	25.0	23	3	-2.0	27.8	27.7	+11.4	6	0	0	5	0	2	0	0	0	0
Baroda . . .	38.4	+1.9	43.4	1	27.4	+8.0	23.3	26	76.1	231.8	+69.0	129.8	23	6	-0.7	8.4	7.4	-3.2	7	0	0	5	0	0	0	3	0	0
Baroda (Aerodrome)	38.0	..	42.9	1	27.5	..	23.2	26	56.9	218.7	..	87.7	30	5	..	15.2	16.0	..	7	0	0	6	0	1	0	0	1	0
Broach . . .	36.5	..	39.5	16	27.3	..	22.8	28	5.0	69.8	..	37.6	28	3	..	14.4	13.5	..	7	0	0	0	1	0	0	0	0	0
Surat . . .	34.2	+0.4	36.3	1	27.6	+1.0	23.8	28	118.6	187.8	-31.1	95.2	25	4	-4.0	16.4	15.4	+3.5	6	0	0	1	0	0	0	0	0	0
Saurashtra and Kutch																												
Naliya . . .	34.5	..	37.9	20,21	27.7	..	24.1	1	0	0	..	0	..	0	..	28.8	23.9	..	0	0	0	1	0	0	0	0	0	0
Bhuj (P.B.O.) .	37.7	+1.4	41.8	1	27.8	+1.3	25.6	1	0	0	-35.1	0	..	0	-1.9	22.1	19.5	+0.7	0	0	0	2	0	1	0	0	0	0
Bhuj (Aerodrome)	38.1	..	42.0	2	27.7	..	25.6	1	0	3.0	..	3.0	30	1	..	25.5	22.9	..	1	0	0	1	0	0	0	0	0	0
Kandla . . .	34.6	..	37.2	19	27.8	..	25.6	30	0	34.3	..	30.0	30	2	..	38.6	33.2	..	2	0	0	2	0	0	0	0	0	0
Mandvi . . .	33.0	..	34.6	21	28.8	..	26.0	1	0	1.0	..	1.0	23	0	..	36.1	36.1	..	1	0	0	1	0	5	0	0	0	0
Dwarka . . .	32.1	+0.3	33.1	30	28.5	+0.5	25.1	21	47.2	49.7	-1.4	49.7	21	1	-1.3	25.0	24.8	+3.7	1	0	0	0	0	0	0	0	0	0
Porbander . . .	32.3	..	33.4	19	28.1	..	24.4	22	80.6	96.1	..	54.0	22	4	..	..	..	..	5	0	0	3	0	0	0	0	0	0
Porbander (Aerodrome)	32.6	..	33.7	..	27.2</td																							

288 TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—JUNE, 1958 (JYAISTA II—ASADHA 9, 1880 SAKA)

Division and station	Air temperature in °C								Rainfall in millimetres						No. of rainy days (2 or more)		Wind speed, Kms. per hour		Weather phenomena—No. of days with												
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29			
Maharashtra—contd.																															
Nagpur	38.8	+3.1	43.1	4 days	25.3	+1.4	23.0	27	29.4	83.7	-26.8	29.7	17	4	-2.7	16.4	15.1	0	4	0	0	9	0	0	0	0	0	0			
Deolali	34.1	..	39.6	1	23.1	..	21.4	24	36.8	52.8	..	27.4	15	5	..	22.1	19.2	..	7	0	0	5	0	0	0	0	2	0			
Aurangabad	37.7	+3.1	42.8	1	23.9	+1.1	21.6	27	17.2	49.8	-88.4	14.2	18	7	-0.7	19.9	19.8	+1.8	8	0	0	8	0	0	0	0	0	0			
Aurangabad (Cinkalthana Aerodrome)	37.6	..	42.1	2	23.7	..	20.9	15	19.7	60.9	..	14.7	26	7	..	20.3	19.5	..	10	0	0	12	0	0	0	0	0	0			
Khandala	..	..	..	..	..	..	..	..	69.4	-142.1	140.0	23	13	-7.3	..	..	..	..	13	..	..	..	..	..	..	..	..	..	..
Ahmednagar	36.5	+3.0	41.4	1	22.8	+0.6	20.6	4	54.0	96.0	-36.8	43.0	17	6	-1.5	13.2	10.3	-3.1	7	0	0	0	0	0	0	0	0	0	0		
Parbhani	40.2	..	44.8	3	26.7	..	22.4	26	4.4	55.2	-84.7	41.4	26	2	-5.8	18.5	16.9	..	2	0	0	4	0	0	0	0	0	0	0		
Poona	34.1	+2.2	39.5	1	23.4	+0.3	21.1	13	22.2	65.4	-48.7	22.1	21	5	-2.3	8.8	6.6	-9.2	9	0	0	4	0	0	0	0	0	0	0		
Poona (Lohagaon Aerodrome)	33.6	..	39.5	1	22.3	..	19.4	5	32.6	77.7	..	23.9	17	6	..	..	..	..	11	0	0	4	0	0	0	0	0	0	0
Baramati	36.9	..	41.9	1	23.2	..	21.7	14	25.0	35.5	..	25.0	28	3	..	20.4	17.8	..	4	0	0	3	0	0	0	0	0	0	0		
Jeur	37.9	..	42.5	1	23.8	..	22.3	25	16.0	29.2	..	12.2	16	3	..	20.5	19.4	..	7	0	0	1	0	0	0	0	0	0	0		
Sholapur	38.1	+3.0	42.9	3	24.7	+1.5	21.9	24	14.6	14.6	-98.2	8.0	28	2	-4.5	15.4	13.7	-1.9	4	0	0	5	0	0	0	0	0	0	0		
Miraj	34.0	+2.8	38.9	1	22.7	+0.5	20.7	24,29	20.5	37.9	-30.9	17.0	17	4	-1.9	20.5	16.4	+0.6	7	0	0	1	0	0	0	0	0	0	0		
Kolhapur	32.2	+2.4	37.8	12	22.6	+0.4	20.3	24,29	41.7	126.0	+12.5	55.6	27	9	+2.2	21.9	17.4	-0.9	11	0	0	1	0	0	0	0	0	0	0		
Rentachintala	
Vidarbha	35.4	..	40.3	3	24.8	..	21.6	26	11.4	124.5	..	77.6	26	7	..	16.2	15.0	..	9	0	0	0	0	0	0	0	0	0	0		
Buldhana	40.1	+2.9	45.1	3	28.1	+2.4	23.1	26	41.0	93.7	-46.8	50.7	26	2	-6.1	16.4	15.2	+2.8	3	0	0	8	0	0	0	0	0	0	0		
Akola	40.2	+3.4	44.8	3	27.5	+2.1	22.8	21	19.9	90.7	-75.7	31.2	21	7	-1.7	17.7	14.3	+2.4	7	0	0	13	0	2	0	0	0	0	0		
Amravati	39.7	..	45.2	3	27.0	..	21.7	30	30.0	130.5	..	26.3	29	8	..	20.4	19.0	..	11	0	0	11	0	0	0	0	0	0	0		
Yeotmal	39.5	+2.6	45.7	3	28.6	+1.7	23.4	21	58.6	123.4	-100.6	52.4	30	6	-4.2	20.6	16.5	..	10	0	0	12	0	0	0	0	0	0	0		
Nagpur	40.9	+2.6	45.7	3	29.2	..	24.0	30	13.8	53.2	..	33.4	30	4	..	9.5	6.9	..	6	0	0	8	0	0	0	0	0	0	0		
Gondia	40.6	..	45.0	4	29.2	..	24.0	30	13.8	53.2	..	33.4	30	4	..	9.5	6.9	..	6	0	0	8	0	0	0	0	0	0	0		
Brahmapuri	41.3	..	46.2	2	29.1	..	23.9	26	73.6	83.0	..	42.4	30	3	..	11.5	9.2	..	7	0	0	10	0	0	0	0	0	0	0		
Chanda	41.4	+3.8	46.9	8	28.5	+1.9	22.7	26	71.2	107.3	-97.2	44.4	26	5	-4.8	15.7	10.9	+2.4	7	0	0	13	0	0	0	0	0	0	0		
Sironcha	41.2	..	46.0	5.7	29.7	..	23.8	25	7.8	71.6	..	26.4	20	6	..	10.0	7.0	..	6	0	0	8	0	2	0	0	0	0	0	0	
Coastal Andhra Pradesh																															
Nellore	40.7	+2.1	44.4	12	30.4	+2.5	28.0	30	0	0	0	-32.3	0	-2.9	0	0	0	0	0	0	0	0	0	0	0	0	0
Ongole	38.7	..	44.4	12	30.5	..	23.9	30	0	7.7	..	3.1	24	1	..	14.7	11.4	..	3	0	0	2	0	0	0	0	0	0	0	0	
Rentachintala	41.5	+3.9	45.0	4 days	29.3	+1.5	23.9	30	0.4	29.8	-62.4	14.3	1	3	-3.6	16.9	13.6	-3.3	5	0	0	0	0	0	0	0	0	0	0		
Gannavaram	41.0	..	46.1	14	28.3	..	24.1	21	9.2	99.3	..	39.9	21	6	..	22.0	18.7	..	10	0	0	10	0	0	0	0	1	0	0		
Masulipatam	39.3	+2.5	45.2	11	28.2	+1.1	23.8	30	19.9	123.5	+21.3	31.8	21,29	9	+2.8	17.9	15.2	+3.1	10	0	0	8	0	0	0	0	0	0	0		
Nidadavolu	39.5	..	46.2	11	27.7	..	22.9	17	30.3	83.7	..	32.2	17	5	..	17.3	12.4	..	9	0	0	8	0	0	0	0	0	0	0		
Kakinada	38.5	+2.5	45.8	15	28.3	+1.1	21.9	21	8.7	72.8	-46.1	20.2	21	6	-1.1	15.9	12.8	+3.0	9	0	0	4	0	0	0	0	0	0	0		
Visakhapatnam	37.0	+1.7	43.2	10	28.4	+1.4	24.9	27	9.6	72.4	-32.8	23.2	17	6	-0.5	22.0	15.9	+4.0	14	0	0	10	0	0	0	0	2	0	0		
Calingapatam	34.7	+0.9	38.4	10	28.2	+1.3	25.0	24	0	17.0	-102.1	16.0	24	1	-5.3	10.2	16.2	+3.3	2	0	0	3	0	0	0	0	0	0	0		
Telangana																															
Ramigundam	41.5	..	46.7	3	30.3	..	24.2	25	8.4	40.0	..	24.0	20	2	..	10.2	8.1	..	6	0	0	4	0	0	0	0	0	0	0	0	0
Nizamabad	40.1	+4.0	44.9	4	27.7	+2.5	23.0	24	7.6	17.3	-130.3	4.4	30	3	-5.7	12.5	9.8	+0.5	7	0	0	2	0	3	0	0	0	0	0	0	
Mahbubnagar	37.4	..	40.9	3	25.5	..	22.7	24	12.2	36.7	..	11.1	7	5	..	18.4	15.7	..	9	0	0	4	0	2	0	0	0	0	0	0	
Hyderabad (Begumpet Aerodrome)	37.6	+3.3	41.7	3	25.4	+1.8	21.2	24	10.7																						

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—JUNE, 1958 (JYAISTA II—ASADHA 9, 1880 SAKA) 289

Division and station	Air temperature in °C.								Rainfall in millimetres						No. of rainy days (2·5 mm. or more)		Wind speed, Kms. per hour		Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	East storm	Ground frost	Gale	Squall	Line squall		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29		
Madras State—Contd.																														
Vellore	37·4	+1·2	39·9	12	27·4	+1·5	25·0	12	18·4	59·8	-10·6	38·6	3	2	-2·9	15·5	12·7	+4·2	2	0	0	5	0	0	0	0	0	0	0	
Madras	39·2	+1·6	41·8	15	28·9	+1·6	24·6	29	14·0	38·5	-8·7	22·2	29	3	-0·7	20·6	17·1	-0·4	6	0	0	3	0	0	0	0	1	0		
Madras (Nungambakkam)	38·4	..	41·6	8	28·4	..	24·7	29	..	45·5	..	28·2	9	3	..	..	9·9	..	5	0	0	0	0	0	0	0	0	0
Coastal Mysore																														
Karwar	29·8	..	32·7	9	25·7	..	20·6	28	352·0	996·2	+55·6	158·6	29	17	-6·0	16·7	15·7	..	19	0	0	0	0	0	0	0	0	0		
Honavar	30·1	+0·6	33·1	13	24·5	+0·4	21·2	25	435·3	1129·1	+59·0	170·7	29	19	-6·8	6·3	5·9	+0·3	19	0	0	7	0	0	0	0	0	0		
Mangalore	30·1	+0·9	33·4	13	24·3	+0·5	21·8	29	499·0	1156·3	+214·5	129·3	17	18	-6·6	11·4	9·7	+1·0	20	0	0	8	0	0	0	0	0	0		
Mangalore (Bajpe Aerodrome)	29·7	..	33·9	13	23·2	..	20·8	29	575·2	1252·4	..	204·8	28	19	..	..	..	..	20	0	0	0	0	0	0	0	0	0
Mysore (North)																														
Bidar	37·0	+3·2	41·6	4	24·4	+2·0	21·1	24	21·5	82·2	-34·9	33·0	26	6	-1·1	22·1	20·7	+0·4	8	0	0	0	0	0	0	0	0	0		
Gulbarga	38·4	+3·0	42·7	3	25·2	+1·8	23·1	24	5·8	6·2	-106·6	3·6	26	1	-5·9	25·7	21·7	+5·4	3	0	0	0	0	0	4	0	0	0		
Bijapur	36·5	+3·1	40·7	8	23·2	+0·9	21·6	29	0	33·9	-42·8	12·0	1	3	-2·4	16·2	14·9	+1·1	4	0	0	3	0	0	0	0	0	0		
Belgaum	28·6	+1·0	33·5	13	20·7	+0·5	18·3	24	63·0	361·9	+156·2	56·9	26	12	-0·9	13·5	8·5	-1·0	13	0	0	0	0	0	0	0	0	0		
Belgaum (C. T. O.)	..	..	..	..	20·7	+0·4	17·7	24	48·4	176·8	-25·9	27·0	22	12	-0·9	14·3	11·4	-1·6	13	0	0	0	0	0	0	0	0	0
Belgaum (Sambie Aerodrome)	30·0	..	35·1	12	20·5	..	19·2	13·30	20·1	89·2	..	17·4	22	16	..	29·7	25·9	..	13	0	0	0	0	0	0	0	0	0		
Gadag	32·9	+1·8	37·8	12	22·1	+0·3	20·3	24	16·0	59·2	-8·6	31·6	1	4	-1·6	20·1	18·4	+1·0	7	0	0	6	0	0	0	0	0	0		
Raichur	37·9	+2·7	41·7	3	25·1	+1·3	22·7	24	23·8	57·1	-34·8	19·8	26	4	-2·0	20·5	20·4	+4·1	9	0	0	2	0	0	0	0	0	0		
Mysore (South)																														
Bellary	35·4	+0·6	38·4	12	25·4	+1·0	19·9	3	0	19·4	-23·8	15·4	3	2	-1·3	14·0	12·2	0·5	2	0	0	1	0	0	0	0	0	0		
Chitaldrug	30·9	+0·3	35·1	12·13	21·8	+0·6	19·9	24	45·1	81·0	+15·2	40·4	14	6	+0·8	14·1	13·5	+1·1	11	0	0	3	0	0	0	0	0	0		
Shimoga	30·3	..	34·6	12	22·0	..	19·8	1	48·5	160·0	..	78·6	1	6	..	10·5	7·8	..	12	0	0	3	0	0	0	0	0	0		
Balehonnur	26·6	+1·7	30·1	13	19·0	+0·2	16·9	24·29	..	517·1	+34·3	34·1	26	15	-6·1	..	..	..	17	0	0	0	0	0	0	0	0	0
Hassan	27·3	+0·1	32·0	10	19·4	+0·3	18·1	24·26·29	61·8	102·8	+11·1	20·0	12	11	+1·7	16·1	13·4	+2·1	16	0	0	7	0	0	0	0	0	0		
Mysore	29·5	+0·1	33·3	13	19·6	-0·5	17·7	3	18·6	49·2	-13·3	24·0	13	3	-2·8	19·4	15·3	+1·1	5	0	0	2	0	0	0	0	0	0		
Bangalore (Central Observatory)	29·8	+0·7	33·3	12	20·3	+1·0	18·1	3	11·2	89·4	+16·8	37·8	14	4	-1·9	20·0	17·6	+4·4	10	0	0	5	0	0	0	0	1	0		
Bangalore (Aero-drome)	30·2	..	33·4	11	20·3	..	18·3	3	17·5	89·2	..	50·0	1	6	..	..	..	..	8	0	0	6	0	0	0	1	4	0
Kerala																														
Kozhikode	30·1	+0·8	33·7	7, 10, 11	24·3	+0·4	21·8	28	334·2	937·9	+97·7	221·4	28	20	-4·1	11·9	10·2	+1·3	20	0	0	7	0	0	0	0	0	0		
Palghat	30·2	..	34·1	11	23·8	..	21·1	25	134·8	327·9	..	62·0	30	15	..	17·2	13·8	..	18	0	0	2	0	0	0	0	0	0		
Fort Cochin	29·8	+0·8	32·7	12	24·5	+0·6	22·3	30	323·3	317·4	+94·0	169·6	28	23	-1·3	9·9	7·3	-0·3	26	0	0	6	0	0	0	0	0	0		
Cochin (Naval Air Station), Alleppey	30·3	..	32·8	9	21·6	..	22·2	28	299·7	316·4	..	170·5	28	22	..	7·9	5·7	..	25	0	0	12	0	0	0	0	11	0		
Punalur	30·9	..	33·8	2	23·4	..	21·3	25	159·2	591·1	..	59·8	28	21	..	5·6	3·5	..	22	0	0	0	0	0	0	0	0	0		
Trivandrum	29·9	+0·4	32·2	1	23·6	-0·1	20·3	25	127·1	562·9	+228·1	118·2	28	21	+3·9	11·5	8·3	-0·2	26	0	0	3	0	0	0	0	0	1		
Trivandrum (Aero-drome)	30·4	..	32·4	1	24·0	..	21·2	25	..	109·0	..	92·6	28	22	..	6·6	27	0	0	3	9	0	0	0	0	2	0	
Arabian Sea Islands																														
Minicoy*
Amini Divi*
Hill Stations excluding Kashmir																														
Walong (R)	25·6	..	28·9	3,10	19·4 (b)	..	18·8	1,20	171·0	232·2	..	26·6	15	16	19	0	0	0	5	0	0	0	0	0	0	
Aijal	26·4	..	30·0	2	20·2	..	15·8	21	..	291·2	..	46·0	16	18	..	8·3	9·1</													

Division and station	Air temperature in °C									Rainfall in millimetres					No. of rainy days (2.5 mm. or more)	Wind speed, Kms. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall			
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
1																													
Hill Stations excluding Kashmir —Contd.																													
Kyleang	..	..	..	..	..	..	..	..	..	22.8	-2.1	11.2	5	2	-0.4	..	..	..	4	0	0	0	0	0	0	0	0	0
Gondla	..	..	..	..	..	..	..	..	..	25.4	..	19.1	6	2	..	..	..	..	2	0	0	0	0	0	0	0	0	0
Kothi	..	..	..	..	..	..	..	..	..	58.5	..	19.8	29	4	..	..	..	..	6	0	0	0	0	0	0	0	0	0
Koksar	..	..	..	..	..	..	..	..	..	6.6	..	2.0	17	0	..	..	..	..	4	..	..	..	..	..	..	..	..	..
Dalhousie	28.9	..	33.4	17	19.1	..	13.3	6	5.5	37.5	-92.3	14.0	27	3	-3.9	5.9	6.3	..	9	0	0	0	0	0	0	0	0	0	
Dharamshala	33.7	..	38.3	17,18	22.4	..	16.6	27	22.8	70.0	..	38.3	27	3	..	9.8	7.2	..	5	0	0	7	0	0	0	0	0	0	
Abu	31.1	+2.4	35.7	3	21.6	+1.3	18.9	13	37.0	90.1	-28.0	51.1	29	2	-3.8	14.1	13.6	+0.7	2	0	0	0	0	0	0	0	0	0	
Pachmarhi	34.4	+3.4	38.8	2	23.8	+1.6	19.4	21	33.4	175.8	-53.8	100.2	21	9	-1.3	10.5	9.4	-0.6	14	0	0	13	0	0	0	0	0	0	
Mahabaleshwar	25.1	+3.7	31.6	1	17.3	+0.4	15.6	26	290.1	809.7	-274.6	115.4	21	14	-8.2	15.4	15.3	-1.1	14	0	0	2	15	0	0	0	0	0	
Nandi Hills	23.9	..	28.3	14	16.1	..	13.9	26	..	76.4	..	37.1	3	5	..	..	28.4	..	5	0	0	0	0	0	0	0	0	0
Mercara	23.8	+1.5	29.1	10	17.3	0	11.2	27,29	228.1	535.7	-112.2	144.5	30	15	-8.2	12.7	12.3	+3.1	18	0	0	0	1	0	0	0	0	0	
Kodaikanal	20.0	+1.9	23.4	7	12.9	+1.1	11.0	30	40.0	52.5	-55.2	17.3	12	5	-4.9	13.6	14.8	-0.3	12	0	0	8	0	0	0	0	0	0	
Ootacamund	19.9	+2.1	24.5	10	9.5	-1.6	5.0	15,16	42.8	97.8	-69.1	43.2	1	6	-8.1	10.1	9.2	+0.7	10	0	0	4	0	0	0	0	0	0	
Coonoor	23.6	+1.0	26.7	6	15.8	+0.7	14.0	1,7	..	10.0	-61.4	5.2	30	2	-4.0	..	6.8	-0.3	10	0	0	0	0	0	0	0	0	0	
Sikkim																													
Thangu.	..	..	..	..	..	..	..	..	..	23.7	..	5.3	18	3	..	..	..	..	15	0	0	0	0	0	0	0	0	0
Chungthang	..	..	..	..	..	..	..	..	..	401.3	..	53.9	22	22	..	..	..	..	22	0	0	0	0	0	0	0	0	0
Lachen*
Tibet																													
Yatung (Chumbi)	20.0	+2.2	21.5	3	3.5	-5.8	-0.5	17	..	79.8	-65.5	10.7	3	16	+2.1	..	..	..	16	0	0	0	0	0	0	0	0	0
Lhasa	25.1	..	29.4	30	10.5	..	6.1	5	..	25.8	..	8.4	27	5	..	..	4.4	..	5	0	0	3	0	0	0	0	0	0
Ceylon																													
Colombo	30.0	0	31.1	2	25.3	+0.1	23.2	18	50.8	217.9	+5.3	31.7	26	19	+5.0	..	..	..	25	0	0	1	0	0	0	0	0	0
Trincomalee	34.8	+1.2	36.0	3	26.7	+0.9	25.7	22	0	0	-23.9	0	..	0	-1.6	..	..	..	0	0	0	0	0	0	0	0	0	0
Batticaloa	33.8	..	35.9	25	25.9	..	25.3	30	0	0.3	..	0.3	29	0	..	..	..	..	1	0	0	0	0	0	0	0	0	0
Hambantota	30.2	-0.2	34.2	24	25.6	+0.7	23.9	27	3.9	11.4	-41.7	2.5	27	1	-4.8	..	..	..	10	0	0	0	0	0	0	0	0	0
Mannar	31.6	..	32.2	25	28.2	..	26.8	28	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0
Hydrometeorological Observatories																													
Damodar Catchment																													
Bokaro	40.6	..	45.6	6	27.5	..	23.7	26	60.4	72.9	..	35.6	25	6	..	12.5	10.2	..	8	0	0	15	0	0	0	0	0	0	
Hazaribagh	37.7	..	41.9	6	25.7	..	20.8	21	22.9	184.0	..	97.3	21	8	..	10.3	5.6	..	10	0	0	2	0	1	0	0	0	0	
Tilaiya	39.8	..	43.7	6	28.3	..	25.4	26	43.7	60.4	..	22.6	23	6	..	13.3	9.7	..	7	0	0	11	0	2	0	0	0	0	
Ramgarh	40.6	..	45.7	14	27.1	..	23.5	22	44.0	60.8	..	12.5	8	6	..	6.6	4.4	..	8	0	0	3	0	1	0	0	0	0	
Panchet Hills	40.4	..	46.1	5	27.9	..	23.2	6	120.3	133.9	..	81.3	26	5	..	14.0	12.0	..	9	0	0	10	0	1	0	0	0	0	
Durgapur	39.2	..	46.4	5	27.6	..	21.4	11	19.3	181.9	..	62.0	16	7	..	15.8	15.2	..	10	0	0	0	1	0	0	0	0	0	
Asansol	85.8	..	39.0	14	5	7
Dhanwar	1.0	..	1.0	5	0	1
Dumri	73.2	..	42.7	7	4	8
Bishungharh	105.5	..	34.3	8	8	9
Chandwa	171.3	..	71.1	22	4	6
Maithon	85.1	..	31.7	14	6	9
Mahanadi Catchment																													
Baramul	39.9	..	46.1	6	27.1	..	23.9	22	55.2	91.2	..	30.5	23	6	..	2.8	1.6	..	9	0	0	18	0	0	0	2	0	0	
Hirakud	40.7	..	46.5	6	29.4	..	23.9	24	11.2	92.6	..	56.9	20	4	..	7.9	6.7	..	9	0	0	12	0	2	0	0	0	0	
Khijrawan	38.3	..	43.2	4,5	26.8	..	23.1	24	50.																				

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—JUNE, 1958 (JYAISSHA II—ASADHA 9, 1880 SAKA) 291

Division and station	Air temperature in °C									Rainfall in millimetres						No. of rainy days (2.5 mm. or more)	Wind speed, Kms. per hour	Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
Hydrometeorological Observatories—contd.																													
Ganga Catchment—Contd.																													
Tehri	39.2	..	42.3	17	23.3	..	17.2	2	15.3	67.7	..	49.5	30	2	..	..	..	..	8	0	0	8	0	0	0	0	2	0
Gandak Catchment—																													
Gorkha	31.2	..	35.3	3	22.0	..	18.9	6,20	24.4	190.1	..	40.9	27	12	..	..	..	..	16	..	..	..	..	..	..	..	..	..
(b)	31.8	..	35.9	3	20.7	..	18.0	6	126.9	433.2	..	55.1	28	19	..	..	..	..	22	..	..	..	..	..	..	..	..	..
Pokhara	33.0	..	37.9	4	21.2	..	17.2	20	6.2	224.8	..	30.5	17	13	..	..	..	..	16	..	..	..	..	..	..	..	..	..
Nawakot	24.4	..	25.7	26	10.9	..	6.5	1	0.5	1.6	..	0.8	7,13	0	..	..	..	..	2	..	..	..	..	..	..	..	..	..
Jomosom	28.9	..	31.2	2,4	18.1	..	15.6	7	2.3	68.2	..	19.5	25	10	..	..	..	..	12	..	..	..	..	..	..	..	..	..
Timure	32.4	..	35.1	6	21.8	..	16.2	22	3.9	55.6	..	27.9	30	4	..	..	..	..	9	..	..	..	..	..	..	..	..	..
Gogra Catchment (Trans Himalayan Region)																													
Dailekh	35.1	..	35.8	6	21.8	..	16.2	22	3.9	55.6	..	27.9	30	4	..	..	..	..	8	..	..	..	..	..	..	..	..	..
Gogra Catchment																													
Dandeldhura	29.3	..	32.4	16,17	18.1	..	12.3	30	25.2	71.2	..	14.2	28,30	..	..	..	..	..	8	..	..	..	..	..	..	..	..	..
Munsiyari	..	..	..	..	..	..	..	..	..	83.8	..	25.4	30	5	..	..	..	..	5	..	..	..	..	..	..	..	..	..
Sallyana (R)
Butwal	39.3	..	44.4	3	26.8	..	18.4	24	26.4	150.1	..	55.1	17	6	6
Bagmati Catchment																													
Katmandu	31.1	..	35.6	2	18.3	..	12.8	3	14.6	119.6	..	30.0	16	11	..	4.3	2.2	..	17	0	0	20	0	0	0	0	0	0	
Kosi Catchment —																													
Chautara	30.0	..	34.4	2	19.7	..	16.3	7	17.8	250.0	..	54.1	25	10	11
Okhaldunga	25.7	..	29.2	5	17.3	..	14.7	7	59.6	111.3	..	20.8	6	11	..	4.6	4.5	..	21	0	0	14	5	0	0	0	0	0	0
Barahkshetra	34.5	..	38.9	4	25.5	..	22.7	7	135.0	260.5	..	88.1	29	13	..	11.3	7.3	..	20	0	0	18	0	0	0	0	0	0	0
Angbung	29.7	..	31.8	3	19.8	..	15.4	6	..	198.8	..	47.0	1	15	18
Taplejung	25.2	..	26.7	4	17.4	179.6	..	34.3	13	14	23	0	0	6	5	0	0	0	0	0	0
Taplethok	29.8	..	32.1	1	18.5	..	16.6	1	..	386.6	..	46.5	23	21	24
Wallingchung Gola	16.0	..	20.6	26	8.6	..	5.0	10	..	182.5
Bhojpur	25.3	..	28.9	4,5	18.1	..	17.1	8	111.7	209.1	..	30.7	6	14	17
Chainpur	29.3	..	34.4	2	19.7	..	16.3	7	17.8	250.0	..	54.1	25	10	11
Tista Catchment																													
Gangtok	23.5	..	25.7	17	15.8	..	13.6	3	90.9	726.4	..	92.9	20	25	..	4.9	4.3	..	30	0	0	11	12	0	0	0	0	0	0
Geyzing	26.4	..	28.9	3	17.8	..	15.2	3	72.0	423.3	..	79.8	14	19	26	0	0	0	0	0	9	0	0	0	0

(R) Register not received.

(b) Mean of 29 days.

(c) Mean of 26 days.

(g) Mean of 24 days.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JUNE, 1958 (JYAISTHA II—ASADHA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs.			Cloud amount (Octas)			Wind speed (Kms. p. h.)			No. of observations											
			At mean sea level or height in g.p.m. of nearest standard isobaric level			At station level			Departure from normal			Relative humidity %			Departure from normal			Mean amount			Wind speed Kms. per hour			Wind direction					
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28		
Bay Islands																													
Maya Bandar	0830	23	1006.5	1003.9	..	27.7	25.7	24.6	31.3	84	..	6.1	..	10.7	0	2	26	0	0	0	0	0	20	8	0	2	0		
	1730	"	1004.5	1001.9	..	27.4	25.4	24.5	30.8	85	..	6.3	..	9.4	0	3	25	0	0	0	0	0	21	7	0	2	0		
Long Island	0830	33	1007.0	1003.3	..	27.5	26.1	25.3	32.7	87	..	7.2	..	1.9	0	0	19	0	0	0	0	0	2	13	4	0	11	0	
	1730	"	1005.1	1001.4	..	27.1	25.5	24.6	31.3	85	..	7.3	..	1.3	0	0	13	0	0	0	0	0	0	11	2	0	17	0	
Port Blair	0530	79	1006.2	997.2	..	25.3	24.3	23.9	29.5	92	..	7.5	..	11.3	0	2	27	1	0	0	0	0	0	2	14	10	2	1	1
	0830	"	1007.4	998.6	+0.1	27.1	25.4	24.6	31.1	86	+4	7.3	+0.6	13.3	0	2	27	0	0	0	0	0	0	2	18	9	0	1	0
	1130	"	1006.6	997.8	..	27.9	25.4	24.4	30.4	81	..	7.4	..	18.3	0	8	21	0	0	0	0	0	0	2	18	9	0	1	0
	1730	"	1005.6	996.7	..	26.6	25.0	24.2	30.4	87	..	7.0	..	14.1	0	3	26	0	0	0	0	0	0	1	18	10	0	1	0
	2330	"	1006.7	997.7	..	25.8	24.7	24.3	30.1	92	..	6.7	..	12.3	0	0	30	1	0	0	0	0	0	1	20	8	0	0	0
Car Nicobar	0830	10	1008.8	1007.6	..	27.5	26.0	25.4	32.4	88	..	6.9	..	5.2	0	0	28	0	0	0	0	0	0	15	9	2	2	2	
	1730	"	1007.0	1005.8	..	27.2	25.6	24.6	31.4	87	..	7.0	..	4.3	0	0	28	0	0	0	0	0	0	1	21	4	3	0	0
Nancowry	0930	26	1009.4	1006.5	..	27.1	25.2	24.4	30.5	85	..	6.6	..	13.9	0	6	24	1	0	0	0	0	0	24	5	0	1	0	
	1730	"	1007.1	1004.1	..	27.0	25.3	24.5	30.7	82	..	6.6	..	13.4	0	3	26	0	0	0	0	0	0	13	15	0	0	0	
Kondul	0830	8	1009.4	1008.5	..	27.6	26.1	25.3	32.7	88	..	6.6	..	9.1	0	2	26	0	0	0	0	0	0	0	2	0	0	3	0
Assam (Including Manipur, Tripura)	0830	157	1002.7	985.2	..	27.5	24.7	23.5	28.9	80	..	6.1	..	4.7	0	1	20	3	0	3	1	2	0	0	0	12	9	0	0
Pasighat	1730	"	998.7	981.5	..	30.4	26.4	24.7	31.1	73	..	5.3	..	2.1	0	0	13	1	0	1	0	6	3	0	2	17	0		
Digboi	0830	"	"	"	..	28.2	25.8	25.1	31.2	82	..	6.2	..	0	0	30	5	0	1	0	10	6	8	0	0	0	0		
	1730	"	"	"	..	30.7	26.3	25.9	30.8	74	..	5.6	..	0	0	30	3	1	1	3	6	6	8	2	0	0	0		
Dibrugarh	0830	106	1002.5	990.6	-0.7	28.3	25.4	24.2	30.2	79	-8	5.5	-0.7	1.9	0	0	17	10	1	2	0	0	1	2	1	13	0		
	1730	"	998.6	986.8	..	30.0	26.1	24.4	30.7	72	..	5.2	..	1.9	0	0	11	2	6	2	1	0	0	0	0	19	0		
Dibrugarh (Mohanbari Aerodrome)	0230	111	1000.6	988.1	..	25.8	24.9	24.5	30.7	93	..	5.2	..	2.2	0	0	16	2	8	3	2	0	0	0	0	1	14	0	
	0530	"	1001.6	989.1	..	25.7	24.7	24.3	30.2	91	..	6.1	..	4.0	0	0	20	1	7	5	1	0	2	2	10	0			
	0830	"	1002.7	990.3	..	28.4	25.8	24.7	31.0	81	..	6.1	..	4.0	0	0	21	8	5	0	3	2	7	1	3	4	0		
	1130	"	1001.3	989.0	..	30.1	26.3	24.7	31.1	74	..	6.3	..	5.1	0	0	26	1	7	3	2	2	7	1	3	4	0		
	1730	"	998.7	986.4	..	30.0	26.8	24.9	31.3	74	..	5.3	..	3.4	0	1	14	2	5	1	0	1	1	1	14	0			
	2330	"	1001.1	988.4	..	26.5	25.5	24.9	31.9	90	..	4.8	..	1.1	0	0	8	1	5	0	2	0	0	0	22	0			
North Lakhimpur	0830	102	1002.5	991.1	..	27.8	25.6	24.7	31.0	84	..	5.7	..	5.0	0	0	27	1	5	5	4	5	0	2	0	0	21	0	
	1130	"	1001.1	989.8	..	30.6	26.7	25.2	32.0	74	..	5.6	..	7.2	0	1	27	2	5	5	4	5	0	2	0	0	2	0	
	1730	"	997.9	987.0	..	30.1	26.8	25.4	32.7	77	..	5.0	..	4.3	0	0	24	0	9	1	3	2	5	1	3	6	0		
Sibsagar	0830	97	1002.9	992.2	+0.1	29.3	26.5	25.3	32.3	80	-5	5.9	-1.1	2.9	0	0	21	8	5	0	3	3	0	1	1	9	0		
	1730	"	998.6	988.1	..	30.7	27.1	25.7	33.0	76	..	5.5	..	1.9	0	0	15	5	3	1	0	2	2	1	1	15	0		
Jorhat	0530	90	1001.1	990.9	..	26.1	25.3	24.9	31.6	94	..	5.7	..	4.1	0	1	12	4	5	0	1	2	1	5	3	8	0		
	0830	"	1002.2	992.2	..	29.2	26.6	25.5	32.6	81	..	5.8	..	6.3	0	0	22	5	5	0	2	1	5	3	6	4	0		
	1130	"	1000.9	999.1	..	31.1	27.1	25.5	32.6	73	..	5.9	..	9.2	0	1	25	3	5	1	0	2	2	4	15	0			
	1730	"	998.0	988.1	..	30.5	27.1	25.8	33.1	77	..	5.2	..	4.0	0	1	14	4	2	1	0	0	0	2	24	0			
Golaghat	0830	"	"	"	..	29.2	26.6	25.6	32.6	81	..	6.5	..	0	0	6	0	0	0	0	0	0	0	0	0	28	0		
	1730	"	"	"	..	31.2	27.6	26.2	33.9	75	..	5.4	..	0	0	2	0	0	0	0	0	0	0	0	0	0	0		
Gohpur	0830	(R)	"	"	..	"	"	"	"	"	..	"	..	0	
	1730	(R)	"	"	..	"	"	"	"	"	..	"	..	0	
Tezpur	0830	79	1002.7	993.9	-0.6	28.3	26.2	25.6	32.4	86	+2	6.5	+0.3	3.5	0	0	22	0	8	2	3	1	5	1	1	8	1		
	1730	"	998.8	990.1	..	30.8	27.4	26.1	33.7	76	..	6.5	..	2.6	0	0	17	0	4	0	1	0	10	0	1	13	1		
Tezpur (P.B.O.)	0230	78	1000.7	991.8	..	26.4	25.6	25.2	32.0	94	..	4.8	..	1.1	0	0	7	0	1	5	0	1	0	0	23	0			
	0530	"	1001.7	992.9	..	25.9	25.1	24.7	31.1	93	..	6.6	..	1.2	0	0	9	0	2	5	9	1	1	5					

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JUNE, 1958 (JYAISTA II—ASADHA 9, 1880 SAKA)

Division and station.	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas)	Wind speed (Km.p.h.)	No. of observations														
			At mean sea level or height in G.P.M. nearest standard isobaric level.			At station level								Wind direction														
			2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Assam (Including Mampur, Tripura)—Contd. Gauhati (Bhorjor Aerodrome)—Contd.	0830	54	1002.5	996.4	..	28.9	26.0	24.4	31.3	79	..	6.4	..	6.8	0	1	23	3	8	1	1	2	3	5	1	6	0	
Rangia	1130	"	1001.4	995.3	..	30.2	26.4	24.9	31.3	74	..	6.3	..	8.1	0	1	28	5	7	4	0	2	2	4	5	1	0	
	1730	"	998.5	992.4	..	30.5	26.7	25.1	31.9	74	..	5.7	..	3.2	0	0	22	6	7	0	1	4	2	1	1	8	0	
	2330	"	1001.0	994.9	..	27.1	26.0	25.6	32.7	92	..	4.9	..	3.2	0	0	16	1	0	1	2	6	4	1	1	14	0	
	0830	..	..	..	..	28.6	26.2	25.1	32.1	83	..	4.8	..	8.9	0	0	18	1	4	3	1	2	1	5	1	0	0
Goalpara	1730	..	..	..	..	30.7	27.3	25.7	33.4	77	..	3.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	0830	38	1001.7	997.6	..	27.2	25.6	24.9	31.4	87	..	6.2	..	3.5	0	0	25	0	3	7	3	3	6	1	2	5	0	
Dhubri	1730	"	997.9	993.6	..	30.6	27.4	25.9	32.5	78	..	5.3	..	2.4	0	0	20	0	2	4	2	2	4	1	5	10	0	
	0830	35	1003.0	999.0	+0.8	27.9	26.1	25.4	32.2	86	0	2.6	-3.5	5.3	0	1	22	0	4	1	2	0	9	0	7	7	0	
	1730	"	999.2	995.6	..	29.6	27.2	26.3	34.2	83	..	1.8	..	2.6	0	0	14	0	5	0	2	0	0	5	16	0		
Tura	0530	..	..	..	..	25.0	24.4	24.1	30.1	95	..	7.0	..	6.6	0	0	24	2	5	6	2	2	4	1	2	6	0
	0830	..	..	..	..	27.5	25.5	24.6	31.0	85	..	6.5	..	7.8	0	0	27	1	3	8	10	3	2	0	0	3	0
	1130	..	..	..	..	29.5	26.3	25.0	31.8	77	..	6.0	..	9.1	0	1	28	4	3	4	6	4	4	4	0	1	0
	1730	30.1	27.0	25.9	33.1	79	..	5.6	..	3.5	0	0	14	0	3	4	3	2	2	0	0	0	16	0
Agartala	0830	370	1003.9	962.8	..	26.0	25.3	24.8	31.7	94	..	6.7	..	3.9	0	0	27	2	3	5	2	2	7	4	2	3	0	
	1730	"	999.2	958.7	..	29.2	28.0	27.3	36.7	90	..	5.7	..	5.1	0	0	28	0	2	1	4	4	12	5	0	2	0	
	0230	16	1000.2	998.3	..	26.3	25.7	25.5	32.4	94	..	5.1	..	7.7	0	0	30	0	2	2	24	2	0	0	0	0	0	
	0530	..	1000.9	999.1	..	26.4	25.7	25.6	32.5	94	..	6.2	..	6.1	0	0	27	0	2	2	22	1	0	0	0	3	0	
Silchar	0830	..	1002.1	1000.3	..	29.7	26.9	25.8	33.1	80	..	6.2	..	8.7	0	2	26	0	0	3	19	6	0	0	0	2	0	
	1130	"	1001.3	999.5	..	31.4	27.4	25.8	33.2	73	..	6.4	..	10.3	0	1	29	1	1	3	10	12	3	0	0	0	0	
	1730	"	998.7	996.9	..	29.3	26.7	25.6	32.8	81	..	6.0	..	6.9	0	0	26	0	1	3	8	12	2	0	0	0	4	0
	2330	"	1001.1	999.3	..	26.9	25.9	25.5	32.7	92	..	4.5	..	6.8	0	0	27	0	0	2	24	1	0	0	0	0	3	0
Silchar (Kumbhigram Aerodrome)	0830	29	1003.9	1000.3	+0.1	28.3	26.0	24.9	31.7	83	-1	6.1	0	0.1	0	0	1	0	0	0	1	0	0	0	29	0		
	1730	"	999.4	996.1	..	30.7	27.1	25.8	32.8	76	..	4.9	..	0.8	0	0	7	0	1	0	0	1	2	1	2	3	0	
Imphal	0530	97	1000.9	990.0	..	25.1	24.7	24.4	30.7	97	..	6.6	..	6.2	0	0	29	0	3	23	2	0	1	0	0	1	0	
	0830	..	1002.1	991.3	..	27.4	25.6	24.7	31.3	86	..	6.3	..	5.4	0	0	29	0	1	17	6	0	1	2	2	1	0	
	1130	"	1000.7	990.0	..	30.0	26.4	25.0	31.5	75	..	5.4	..	6.6	0	0	26	0	0	6	1	3	7	7	2	4	0	
	1730	"	998.0	981.4	..	29.8	26.8	25.6	32.9	79	..	4.7	..	4.1	0	0	24	0	0	3	1	4	5	9	2	6	0	
Haflong	0530	801	1003.5	916.2	..	22.3	21.5	21.1	25.1	93	..	6.2	..	1.4	0	0	11	0	0	0	3	3	3	2	0	19	0	
	0830	..	1003.4	917.1	..	25.7	22.8	21.4	25.6	78	..	6.2	..	2.5	0	0	17	0	2	2	5	4	3	0	1	13	0	
Lumding	1130	"	1001.4	915.9	..	28.0	23.3	21.2	25.2	67	..	5.9	..	11.1	0	4	26	3	2	2	3	5	10	4	1	0	0	
	1730	"	999.6	913.9	..	26.6	22.8	21.0	25.1	73	..	5.7	..	6.3	0	0	25	1	1	3	0	4	7	8	1	5	0	
Malda	2330	"	1003.4	916.1	..	23.2	22.1	21.7	25.8	91	..	5.1	..	1.0	0	0	5	1	0	1	1	0	2	0	0	25	0	
	0830	682	1003.1	928.7	..	24.4	22.6	21.7	25.8	85	..	5.7	..	13.1	0	5	25	1	1	0	0	6	22	0	0	0	0	
Gangetic West Bengal Dum Dum	1730	"	998.8	925.2	..	26.2	23.2	21.8	25.8	78	..	5.0	..	11.8	0	2	28	1	1	0	0	7	20	0	1	0	0	
	0830	149	1002.4	985.8	..	29.5	26.0	24.7	30.7	75	-6	6.3	..	1.7	0	0	11	0	2	1	1	1	3	2	1	19	0	
Sub-Himalayan West Bengal Cooch Behar (C.W.O.)	1730	"	998.3	982.3	..	31.1	26.6	24.8	31.2	69	..	5.5	..	2.8	0	0	14	0	2	1	0	0	4	3	4	16	0	
	0830	48	1002.2	997.3	..	27.2	25.5	24.6	31.5	87	..	5.9	..	8.1	0	0	27	1	5	15	2	2	1	0	1	3	0	
Jaiparguri	1130	"	1001.3	996.4	..	29.7	26.7	25.5	32.6	79	..	5.2	..	9.3	0	1	28	2	4	11	8	2	0	0	1	1	1	0
	1730	"	999.1	993.4	..	30.3	27.5	26.4	34.5	80	..	4.9	..	3.9	0	0	21	0	3	10	8	0	0	0	0	9	0	
Bagdogra	0830	83	1002.7	993.3	+0.5	25.2	24.5	23.6	29.4	87	+1	5.4	+0.6	6.5	0	0	28	5	9	10	2	1	0	0	0	1	2	0
	1730	"	998.5	989.3	..	30.8	26.9	25.3	32.2	73	..	2.8	..	7.4	0	0	29	0	6	13	9	1	0	0	0	1	0</td	

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JUNE, 1958 (JYASTHA 11—ASADHA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Cloud amount (Okta)			Wind speed (Km.p.h.)			No. of observations																									
			At mean sea level or height in g.m. of nearest standard isobars			At station level			Departure from normal			Relative humidity %			Departure from normal			Mean wind speed, Km. per hour			N		NE		E		SE		S		SW		W		NW		Calm		Variable	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28										
Gangetic West Bengal																																								
—Contd.																																								
Calcutta—Contd.	1730	6	997.2	996.5	..	32.6	27.4	25.3	32.2	67	..	5.7	..	9.6	0	0	27	0	1	1	11	12	2	0	0	3	0	0	0	0	0									
Barrackpore	0530	7	999.5	998.7	..	27.6	26.9	26.6	34.9	94	..	4.8	..	5.9	0	0	21	1	0	4	5	6	4	1	0	9	0	0	0	0	0									
	0830	"	1000.7	999.9	..	31.6	28.3	27.0	35.9	77	..	5.2	..	10.8	0	0	27	0	1	3	9	8	3	2	1	3	0	0	0	0										
	1130	"	999.8	999.1	..	34.3	28.5	26.0	34.2	64	..	5.0	..	11.4	0	1	29	0	2	2	8	9	7	1	1	0	0	0	0	0										
	1730	"	997.3	996.6	..	32.3	27.6	25.7	33.0	69	..	5.6	..	14.3	0	3	27	1	0	3	13	10	2	0	1	0	0	0	0	0										
	2330	"	999.9	999.1	..	28.4	26.9	26.2	34.2	88	..	3.3	..	6.5	0	0	23	0	0	2	9	8	4	0	0	0	7	0	0											
Saugor Island	0830	3	1000.2	999.9	-0.3	31.4	29.9	29.3	41.0	89	+11	5.3	-1.2	23.6	0	20	10	2	1	0	3	10	11	2	1	0	0	0	0	0										
	1730	"	997.5	997.2	..	31.5	29.7	29.1	40.3	87	..	5.5	..	28.4	0	26	4	0	0	0	9	14	7	0	0	0	0	0	0	0										
Sandheads*	0530	10	1000.4	999.3	..	30.3	28.3	27.5	37.0	86	..	4.7	..	..	0	6	9	0	0	0	0	2	6	7	0	0	1	0	0	0								
	0830	"	1001.7	1000.6	..	31.0	28.9	28.1	38.1	84	..	5.3	..	..	0	2	14	0	0	0	1	3	12	0	0	0	0	0	0	0								
	1130	"	1001.3	1000.3	..	31.9	29.3	28.4	38.5	82	..	6.4	..	..	0	10	6	0	0	0	1	10	5	0	0	0	0	0	0	0								
	1730	"	998.2	997.1	..	30.9	28.7	27.9	37.5	83	..	2.7	..	..	0	3	13	0	1	0	2	7	5	0	1	0	0	0	0	0								
	2330	"	1000.4	999.3	..	30.3	28.5	27.8	37.5	87	..	5.1	..	9.7	0	0	26	1	0	1	5	8	9	2	0	4	0	0	0											
Contai	0830	11	1000.4	999.2	..	31.5	28.3	26.1	35.9	78	..	5.6	..	15.9	0	8	20	0	0	0	8	13	7	0	0	2	0	0	0	0										
	1730	"	997.7	996.5	..	30.9	28.2	26.9	36.0	80	..	2.8	-2.2	4.5	0	0	26	0	0	1	2	15	7	1	0	4	0	0	0	0										
Midnapore	0830	45	1000.1	995.1	-0.2	33.1	27.3	24.6	31.5	63	-15	4.3	..	10.4	0	0	29	0	1	2	3	16	7	0	0	1	0	0	0	0										
	1730	"	996.7	991.7	..	33.7	26.9	23.9	29.9	59	..	4.8	..	4.9	0	0	30	1	1	1	9	4	6	5	3	0	0	0	0	0										
Purulia	0830	255	999.9	972.4	..	32.2	36.0	22.6	28.5	60	..	6.4	..	7.0	0	0	28	3	4	1	8	6	3	0	3	2	0	0	0	0										
	1730	"	996.0	968.5	..	35.3	25.0	20.5	23.2	46	..	3.3	-2.6	1.2	0	0	8	0	0	0	2	2	4	0	0	22	0	0	0	0										
Burdwan	0830	32	1000.2	996.6	-0.2	32.0	..	..	..	..	..	4.3	..	5.5	0	0	20	4	0	1	6	3	5	0	1	10	0	0	0	0					
	1730	"	997.5	994.0	..	34.7	..	..	..	..	..	4.3	..	5.5	0	0	20	4	0	1	6	3	5	0	1	10	0	0	0	0					
Krishnagar	0830	15	1000.8	999.1	-0.2	31.7	28.0	26.9	34.8	75	-4	2.8	-2.9	2.2	0	0	30	0	0	2	1	24	0	0	0	1	0	0	0											
	1730	"	997.1	995.5	..	33.1	27.5	25.3	32.2	66	..	3.2	..	3.3	0	0	30	0	0	2	0	27	0	1	0	0	0	0	0	0										
Asansol	0230	126	997.9	983.9	..	29.3	27.1	26.2	34.2	84	..	3.6	..	7.4	0	0	25	0	0	2	14	8	1	0	0	5	0	0	0	0										
	0530	"	998.8	984.8	..	28.4	27.0	26.4	34.5	89	..	3.9	..	6.3	0	0	25	0	1	1	15	6	0	2	0	5	0	0	0	0										
	0830	"	999.2	985.8	-0.2	32.5	28.3	26.7	35.2	73	-1	3.0	-2.3	7.3	0	1	26	1	5	4	11	3	1	2	0	3	0	0	0	0										
	1130	"	998.5	984.8	..	37.0	29.7	26.9	35.6	58	..	2.7	..	7.7	0	0	26	0	3	7	10	4	0	2	0	4	0	0	0	0										
	1730	"	995.9	982.2	..	34.5	28.5	26.4	34.0	65	..	5.6	..	10.8	0	1	29	2	5	6	6	4	2	1	4	0	0	0	0	0										
	2330	"	998.8	984.9	..	30.3	27.4	26.2	34.3	80	..	3.9	..	9.6	0	0	29	1	2	3	15	6	2	0	0	1	0	0	0	0										
Suri	0830	77	1000.3	991.8	..	31.8	27.1	24.9	31.9	68	..	3.1	..	10.7	0	2	26	0	3	5	7	8	3	1	1	2	0	0	0	0	0									
	1730	"	996.9	988.4	..	34.7	25.4	19.6	24.8	50	..	6.0	..	12.0	0	2	28	1	4	9	8	2	0	4	2	0	0	0	0	0	0									
Berhampore	0830	19	1000.2	998.1	-0.5	31.2	27.9	26.4	35.3	77	-4	3.4	-2.7	4.4	0	0	26	0	0	5	5	13	2	1	0	4	0	0	0	0	0									
	1730	"	996.5	994.4	..	33.1	27.1	24.1	30.8	63	..	4.9	..	4.5	0	0	25	1	0	8	6	9	0	1	0	5	0	0	0	0	0									
Orissa	0830	54	1000.5	994.6	..	32.1	27.4	25.7	32.7	70	..	4.7	..	2.1	0	0	23	1	1	0	6	2	11	0	2	7	0	0	0	0	0									
	1730	"	997.0	991.0	..	33.4	27.1	24.5	30.6	63	..	6.1	..	3.4	0	0	24	0	2	2	10	3	6	1	0	6	0	0	0	0	0									
Balasore	0830	20	999.8	997.6	-0.5	31.8	27.4	25.7	32.9	71	-6	5.4	0	7.3	0	0	27	0	0	0	4	12	11	0	0	3	0	0	0	0	0									
	1730	"	997.1	994.9	..	32.1	27.2	25.0	32.2	68	..	6.1	..	10.5	0	2	25	0	2	3	5																			

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JUNE, 1958 (JYAIKTHA II—ASADHA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars.			Mean temperature in °C.			Cloud amount (Okta).			Wind speed (Km. p.h.)			No. of observations																
			At mean sea level or height in g.p.m. of nearest standard isobaric level			At station level			Departure from normal			Departure from normal			Mean amount			Wind speed, Km. per hour			Wind direction										
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	Calm	Variable	
Orissa—Contd.																															
Bolangir . . .	0830	190	1000.0	979.5	..	33.1	28.1	26.0	34.1	67	..	5.2	..	12.5	0	1	29	1	2	0	3	11	12	0	1	0	0	0	0		
	1730	"	996.5	976.2	..	36.8	29.3	25.8	33.9	56	..	5.3	..	13.0	0	3	27	3	3	0	4	11	9	0	0	0	0	0	0		
Angul . . .	0830	139	1000.6	985.4	+0.3	31.2	25.5	22.7	28.0	63	-9	5.8	0	4.9	0	0	29	0	4	7	4	2	3	4	5	1	0	0			
	1730	"	996.5	981.2	..	34.3	24.7	18.1	23.2	43	..	7.1	..	9.3	0	0	29	1	4	1	4	5	10	1	3	1	0	0			
Keonjhar . . .	0830	463	996.9	947.2	..	31.2	24.4	20.7	25.7	57	..	3.8	..	6.8	0	1	28	1	2	2	9	3	2	8	2	1	0	0			
	1730	"	993.5	944.2	..	33.4	24.5	19.3	24.2	48	..	7.0	..	7.6	0	0	30	1	0	0	8	6	7	6	2	0	0	0			
Sambalpur . . .	0830	148	1000.2	984.4	+0.2	33.2	26.9	24.3	30.3	61	-5	4.1	-1.1	4.9	0	0	27	1	1	2	2	5	10	5	1	3	0	0			
	1730	"	996.3	980.4	..	37.4	27.4	22.9	28.3	48	..	5.1	..	3.6	0	0	21	3	1	1	3	5	4	2	2	9	0	0			
Jharsuguda . . .	0230	230	998.2	972.9	..	29.6	23.7	20.3	24.5	62	..	4.2	..	2.3	0	0	14	0	1	0	2	9	0	2	0	16	0	0			
	0530	"	998.8	973.5	..	29.0	23.6	20.7	24.6	65	..	5.3	..	3.0	0	0	16	1	0	4	0	10	0	1	0	14	0	0			
	0830	"	999.8	974.8	..	32.8	24.6	20.1	24.1	50	..	4.4	..	5.8	0	0	25	0	4	2	0	7	2	9	1	5	0	0			
	1130	"	998.6	974.1	..	37.5	25.1	18.2	21.6	37	..	3.9	..	6.7	0	2	21	0	0	0	0	7	0	15	1	7	1	0			
	1730	"	995.3	970.6	..	36.3	24.1	16.3	20.0	40	..	5.9	..	6.5	0	2	21	0	0	1	3	8	1	8	2	7	0	0			
Chota Nagpur			998.9	973.8	..	30.9	23.9	20.0	23.9	58	..	5.3	..	5.3	0	0	22	1	1	3	4	10	0	2	1	8	0	0			
Jamshedpur . . .	0830	129	999.7	985.6	-0.2	32.1	26.2	23.4	29.1	62	-8	2.9	-2.5	7.3	0	0	28	0	0	4	1	1	6	15	1	2	0	0			
	1730	"	995.4	981.7	..	35.5	24.8	18.6	22.5	44	..	6.0	..	9.5	0	1	26	1	0	9	4	1	2	6	4	3	0	0			
Jamshedpur (P.B.O.) .	0530	145	998.9	982.8	..	28.8	25.3	23.5	29.4	75	..	4.5	..	2.4	0	0	15	0	1	3	4	0	3	4	0	15	0	0			
	0830	"	999.8	983.9	..	32.5	25.8	22.6	27.6	60	..	4.1	..	4.2	0	0	27	0	0	4	3	2	9	9	0	3	0	0			
	1130	"	998.5	982.8	..	37.3	25.8	19.4	23.7	40	..	4.1	..	6.2	0	0	29	2	3	3	1	3	8	7	2	1	0	0			
	1730	"	995.8	980.0	..	35.3	24.7	17.7	22.4	45	..	6.5	..	10.1	0	3	27	0	2	5	7	2	2	4	8	0	0	0			
	2330	"	999.1	983.1	..	30.8	25.5	22.9	28.3	66	..	4.5	..	6.0	0	0	27	0	6	5	6	1	4	3	2	3	0	0			
Chaibasa . . .	0830	226	999.2	974.8	0	32.5	27.7	25.9	33.1	69	0	4.6	-0.5	2.5	0	0	19	1	0	1	3	0	12	2	0	11	0	0			
	1730	"	995.4	971.0	..	35.8	28.2	25.3	31.9	58	..	6.6	..	2.1	0	0	16	0	5	1	3	0	5	0	1	2	14	0	0		
Ranchi . . .	0830	655	999.3	929.1	+0.5	31.5	22.4	17.2	20.4	48	-20	3.4	-1.6	1.1	0	0	9	0	0	2	0	5	1	1	0	21	0	0			
	1730	"	995.8	926.8	..	32.7	22.6	16.4	19.9	41	..	5.9	..	0.8	0	0	5	0	1	2	0	0	0	1	1	25	0	0			
Ranchi (C. W. O.) .	0530	652	998.3	927.7	..	26.9	22.2	20.1	24.0	73	..	3.9	..	4.7	0	1	15	1	0	1	0	7	6	1	0	8	0	0			
	0830	"	998.7	929.2	..	30.3	22.9	18.9	22.5	57	..	3.6	..	6.0	0	0	21	0	1	2	0	7	7	4	0	2	0	0			
	1130	"	997.5	929.0	..	34.7	24.0	18.3	22.0	43	..	3.4	..	6.0	0	0	25	5	2	2	2	1	4	6	2	3	5	0	0		
	1730	"	994.8	926.4	..	34.2	23.8	18.7	21.8	45	..	4.9	..	4.7	0	0	20	2	1	1	1	2	1	7	5	5	0	0			
Daltonganj . . .	0830	221	998.7	974.8	-0.2	34.4	25.1	19.4	25.2	43	-17	4.3	+0.8	2.5	0	0	19	1	1	0	2	1	4	8	2	11	0	0			
	1730	"	994.2	970.7	..	38.0	24.7	16.3	21.3	37	..	5.4	..	4.1	0	0	26	2	5	1	2	0	1	6	9	4	0	0			
Hazaribagh . . .	0830	611	998.7	933.6	0	32.2	22.6	16.4	20.2	47	-18	5.1	-0.6	6.3	0	0	27	0	0	4	6	8	3	6	3	0	0	0			
	1730	"	994.6	930.1	..	34.3	22.7	15.5	18.9	41	..	6.2	..	6.5	0	0	27	4	1	3	6	1	2	0	10	3	0	0			
Dhanbad . . .	0830	257	999.4	971.3	..	32.0	26.0	23.0	28.7	62	..	3.7	..	7.4	0	1	28	1	0	5	7	10	3	3	0	1	0	0			
	1730	"	995.7	968.0	..	34.0	24.7	19.5	23.4	48	..	6.0	..	12.3	0	2	25	2	3	3	11	4	1	3	3	0	0	0			
Bihar																															
Purnea . . .	0830	38	1001.2	997.0	+0.2	29.5	26.0	24.3	30.7	75	-7	4.1	-1.3	4.1	0	0	29	1	3	23	2	0	0	0	0	1	0	0	0		
	1730	"	996.7	992.5	..	33.7	27.4	24.7	31.3	63	..	3.6	..	4.3	0	0	28	1	10	15	0	0	0	1	1	2	0	0	0		
Forbesganj . . .	0830	61	1001.0	994.2	..	29.2	25.7	24.2	30.2	76	..	4.6	..	12.1	0	2	28	0	2	28	0	0	0	0	0	0	0	0	0		
	1730	"	996.6	990.0	..	33.2	27.2	24.4	30.7	60	..	4.1	..	9.3	0	0	30	1	1	24	2	1	0	1	0	0	0	0	0		
Darbhanga . . .	0830	49	1000.3	994.8	-0.1	30.4	26.6	25.0	32.8	73	-4	2.6	-2.2	3.5	0	0	30	1	10	10	9	0	0	0	0	0	0	0	0		
	1730	"	996.5	991.1	..	34.9	27.1	22.6	29.5</td																						

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JUNE, 1958 (JYAISTHA II—ASADHA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres.	Mean pressure in millibars			Mean temperature in °C			Cloud amount (Octas)			Wind speed (Km.p.h.)			No. of observations													
															Wind direction													
			At mean sea level or height in g.p.m. nearest standard isobaric level	At station level	Departure from normal	Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Mean amount	Departure from normal	Mean wind speed, Km. per hour	62 or more	20 to 61	1 to 19	N	NE	E	SE	S	SW	W	NW	Calm	Variable	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
Bihar—Contd. Jamui—Contd.	1730	82	996.5	986.5	..	37.4	26.6	20.4	25.9	45	..	3.7	..	5.6	0	0	29	0	4	13	4	0	0	0	8	1	0	
Dumka	0830	149	1000.4	984.0	+0.3	31.9	26.3	23.7	29.7	63	-12	1.0	-3.7	5.8	0	0	29	3	2	8	10	1	1	4	0	1	0	
Bhagaipur	1730	"	996.5	981.0	..	34.1	25.1	19.7	24.4	49	..	4.2	..	6.2	0	0	29	2	4	7	10	0	1	4	1	1	0	
	0530	49	999.0	993.5	..	28.1	26.2	25.0	32.4	83	..	3.9	..	5.3	0	0	22	1	4	10	6	1	0	0	0	8	0	
	0830	"	1000.3	994.9	..	31.5	27.0	25.2	32.4	70	..	3.1	..	7.3	0	2	27	0	1	14	10	2	1	0	1	1	0	
	1130	"	999.5	994.1	..	34.9	27.3	23.9	30.0	56	..	2.7	..	8.7	0	2	27	0	5	15	7	0	1	1	0	1	0	
	1730	"	995.9	990.5	..	35.5	26.9	22.6	28.4	52	..	4.0	..	7.4	0	0	24	0	3	16	1	1	1	1	6	0		
	2330	"	999.1	993.6	..	30.3	26.3	24.3	30.9	71	..	2.5	..	7.2	0	1	24	0	0	15	8	2	0	0	0	5	0	
Sabour	0830	37	1000.1	996.0	-0.4	31.3	27.6	26.0	33.8	75	-2	4.2	-1.6	10.9	0	2	28	5	0	16	8	0	1	0	0	0	0	
Uttar Pradesh (East) Gonda	1730	"	995.7	991.6	..	35.6	28.6	25.6	33.3	60	..	5.4	..	8.7	0	0	28	3	3	13	4	1	1	0	3	2	0	
	0830	110	999.1	987.1	..	33.6	25.1	21.2	24.5	53	-16	1.4	-3.0	3.2	0	0	19	1	0	15	0	0	0	0	3	11	0	
	1730	"	994.0	982.2	..	40.1	26.1	18.4	22.5	35	..	1.1	..	2.9	0	0	18	0	0	6	0	0	0	7	5	12	0	
Nautanwa	0830	99	999.9	988.9	..	31.2	25.2	22.1	27.4	59	..	2.3	..	8.1	0	1	29	0	2	14	14	0	0	0	0	0	0	
Gorakhpur	0830	77	999.2	990.7	-0.7	32.2	26.2	23.4	28.8	62	-11	1.4	-2.0	4.7	0	0	29	2	0	25	0	1	0	0	1	0	1	0
Gorakhpur (P.B.O.)	0230	78	997.0	988.3	..	29.9	24.2	20.8	25.4	63	..	1.9	..	8.3	0	0	25	0	8	10	4	1	0	1	1	5	0	
	0530	"	998.0	989.3	..	27.9	24.0	21.8	26.5	71	..	2.4	..	7.2	0	2	24	0	11	13	1	0	0	1	0	4	0	
	1130	"	998.7	990.2	..	35.9	26.0	20.7	25.7	47	..	2.4	..	8.5	0	2	28	0	2	10	8	2	5	1	2	0	0	
	2330	"	997.6	989.0	..	31.6	24.6	20.4	25.5	57	..	1.9	..	7.5	0	0	25	1	8	10	1	1	2	1	1	5	0	
Azamgarh	0830	78	998.2	989.5	..	32.9	27.5	24.9	32.0	66	..	1.3	..	0	0	0	28	0	1	15	1	1	0	0	11	0	2	0
	1730	"	993.8	985.4	..	39.0	29.1	24.7	33.3	51	..	2.1	..	0	0	0	24	1	0	8	0	0	0	15	0	6	0	
Ballia	0830	64	999.1	992.1	..	32.8	25.8	22.2	26.5	58	..	3.1	..	4.3	0	0	27	0	11	7	6	1	0	2	0	3	0	
	1730	"	994.5	987.7	..	39.0	25.3	17.1	21.1	35	..	3.0	..	4.4	0	0	28	0	5	5	3	0	0	4	8	3	2	0
Varanasi (Banaras)	0830	76	998.5	990.1	-0.7	35.1	25.9	21.0	25.8	49	-12	2.6	-1.4	4.7	0	0	22	0	7	3	0	0	0	4	3	4	8	1
	1730	"	994.0	985.8	..	39.9	26.5	19.2	24.0	35	..	3.4	..	4.7	0	0	24	0	4	2	2	0	0	4	5	7	6	6
Varanasi (Banaras) (Babatpur Aerodrome)	0530	85	998.1	988.5	..	30.0	23.9	20.4	24.7	56	..	2.9	..	5.5	0	0	25	1	6	7	1	1	5	4	0	5	0	
	0830	"	999.7	990.7	..	34.5	26.3	22.0	27.0	54	..	1.9	..	13.0	0	6	22	0	4	6	4	1	6	5	2	2	0	
	1130	"	998.9	989.7	..	39.2	27.1	20.7	25.7	41	..	1.9	..	16.0	0	8	21	2	6	1	2	0	1	7	10	1	6	
	1730	"	995.0	985.8	..	39.5	27.2	20.9	26.1	39	..	2.5	..	12.7	0	3	27	1	4	4	2	0	1	8	10	0	0	
Allahabad (Bamrauli)	0230	90	996.5	985.8	..	32.3	23.3	18.1	21.4	45	..	2.0	..	5.4	0	0	22	0	1	7	2	2	4	5	1	8	0	
	0530	"	997.2	986.4	..	31.0	22.9	18.4	21.6	56	..	3.2	..	6.0	0	0	23	1	4	4	1	1	3	8	1	7	0	
	0830	"	998.8	988.1	-0.1	35.5	24.2	17.7	20.8	39	-17	2.8	-1.0	13.0	0	4	26	0	3	6	0	1	4	13	3	0	0	
	1130	"	998.2	987.6	..	40.0	25.0	16.2	19.4	29	..	2.5	..	14.0	0	6	22	2	2	3	0	1	0	9	11	2	0	
	1730	"	994.3	983.8	..	39.9	24.7	15.1	18.7	29	..	2.6	..	9.5	0	1	28	3	4	3	0	0	1	8	10	1	0	
Banda	0830	121	999.1	985.9	..	35.3	24.7	18.2	22.0	41	..	2.2	..	1.8	0	0	12	0	0	1	0	1	0	7	3	1	18	0
	1730	"	994.3	981.4	..	40.0	26.0	18.1	22.5	34	..	2.9	..	2.2	0	0	15	0	1	0	1	0	7	2	4	15	0	
Fatehpur	0830	114	998.8	986.4	..	34.8	24.7	18.4	23.5	42	-20	2.0	-1.6	10.1	0	0	28	3	4	2	2	2	3	2	10	2	0	
	1730	"	994.3	982.1	..	40.0	25.2	17.3	20.1	29	..	2.2	..	12.1	0	3	27	1	3	2	3	0	2	7	12	0	0	
Kanpur	0830	126	999.2	985.5	+0.5	34.2	23.9	17.8	21.0	42	-16	4.6	+2.4	15.9	0	8	22	3	3	8	0	0	3	13	0	0	0	
	1730	"	994.7	981.3	..	40.1	25.0	15.7	19.4	30	..	4.2	..	16.2	0	8	21	1	4	4	0	0	0	17	3	3	0	
Lucknow	0830	111	999.3	986.8	0	33.2	24.2	19.0	23.4	47	-14	2.4	-0.9	2.4	0	0	16	0	0	5	0	0	0	1	10	0	14	0
	1730	"	994.5	982.6	..	39.5	24.5	14.9	18.4	29	..	1.8	..	3.2	0	0	17	0	0	2	0	0	1	0	12	2	13	0
Lucknow (Amausi Aerodrome)	0230	128	996.7	982.6	..	31.3	22.4	16.1	19.6	46	..	1.9	..	7.7	0	2	20	2	0	3	4	0	2	7	4	8	0	
	0530	"	997.3	983.2	..	29.8	21.9	17.1	20.5	50	..	2.7	..	8.1	0	3	22	1	2	5	1							

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JUNE, 1958 (JYĀSTHA 11—ASADHA 9, 1880 SAKA)

Division and station.		Hour of observation I.S.T.		Height of barometer cistern above mean sea level in metres		Mean pressure in millibars.		Mean temperature in °C.		Vapour pressure in rbs.		Relative humidity %		Cloud amount (Oktas)		Wind speed, (Km.p.h.)		No. of observations.												
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	Wind direction.		
			A) mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Dry bulb	Wet bulb	Dew point				Mean amount	Departure from normal	Mean wind speed, Km. per hour	N	NE	E	SE	S	SW	W	NW	Calm	Variable						
Uttar Pradesh (West)																														
Contd.																														
Jhansi		0830	251	999.1	972.1	+0.1	34.3	..	..	..	..	3.3	+0.6	4.0	0	0	24	0	0	0	0	5	10	9	6	0		
		1730	"	994.7	968.2	..	39.5	..	..	..	..	4.1	..	4.0	0	0	27	8	5	1	1	1	3	1	8	3	0	
Agra		0830	169	999.1	980.7	+0.4	34.6	24.1	18.4	21.0	40	-5	2.1	-0.5	3.5	0	0	17	0	0	0	0	10	6	1	13	0			
		1730	"	994.7	976.8	..	40.6	25.5	16.7	20.5	28	..	2.7	..	3.1	0	0	22	1	2	1	1	1	2	5	9	8	0		
Agra (Aerodrome) (R)		0530	168																											
(R)		0830	"																											
(R)		1130	"																											
(R)		1730	"																											
(R)		2330	"																											
Mainpu: i		0830	157	998.4	981.4	0	34.4	24.4	18.9	22.5	42	-11	2.1	-0.9	2.6	0	0	21	0	0	1	1	0	1	16	2	9	0		
		1730	"	994.6	977.5	..	41.0	25.1	16.5	19.2	27	..	1.9	..	2.6	0	0	24	0	0	3	0	0	0	16	5	6	0		
Aligarh		0830	187	999.0	978.5	..	33.3	23.5	17.6	19.8	42	-14	2.1	-0.2	3.8	0	0	26	3	0	4	0	1	1	12	5	4	0		
		1730	"	994.5	974.6	..	39.8	24.3	15.0	17.6	26	..	2.3	..	4.6	0	0	25	6	1	3	1	1	0	8	5	0	0		
Bareilly		0830	173	998.2	979.4	-0.7	33.3	24.3	19.2	23.4	47	-17	2.2	-1.1	7.7	0	0	27	4	2	6	2	0	1	8	4	3	0		
		1730	"	993.5	975.1	..	39.6	25.5	16.5	21.1	32	..	2.3	..	9.1	0	1	26	0	1	5	0	0	1	17	3	3	0		
Bareilly (P. B. O.) . . .		0230	172	996.4	977.5	..	30.9	24.4	21.6	24.9	59	..	1.4	..	7.1	0	1	22	3	1	3	6	1	1	4	4	7	0		
		0530	"	997.2	978.1	..	29.5	24.4	22.3	26.6	67	..	2.1	..	7.1	0	1	22	0	0	6	5	0	0	6	6	7	0		
		1130	"	998.0	979.5	..	37.3	28.5	25.4	31.2	53	..	2.0	..	14.8	0	3	27	2	1	4	4	1	1	5	12	0	0		
		2330	"	996.6	977.9	..	33.1	25.6	22.5	26.1	56	..	0.9	..	6.8	0	1	22	1	0	6	2	1	1	9	3	7	0		
Meerut		0830	222	998.9	974.7	-0.1	32.9	23.9	18.9	22.4	47	-9	0.5	-2.6	5.8	0	0	21	0	0	5	0	0	0	13	3	9	0		
Najibabad		0830	270	999.0	969.5	..	30.9	22.3	17.0	20.2	46	..	0.9	..	4.0	0	0	25	0	3	0	0	8	0	0	0	14	5	0	
		1730	"	994.8	966.2	..	39.7	23.6	12.8	20.2	24	..	0.6	..	5.0	0	0	30	1	1	0	5	0	1	0	22	0	0		
Roorkee		0830	274	998.5	968.6	-0.5	31.3	21.8	16.4	18.2	44	-13	3.2	+0.3	1.5	0	0	15	0	0	0	4	0	0	0	11	15	0		
		1730	"	993.5	964.5	..	39.5	23.4	12.8	15.5	24	..	3.3	..	2.7	0	0	27	0	0	0	0	4	0	0	23	3	0		
Dehra Dun		0530	682	997.9	924.0	..	25.3	18.7	14.5	16.2	53	..	1.1	..	1.2	0	0	9	2	3	0	0	0	1	2	1	0	21	0	
		0830	"	998.4	925.6	-0.2	30.4	20.9	15.2	18.1	42	-18	1.7	-1.7	1.3	0	0	16	1	1	3	2	1	1	5	2	14	0		
		1130	"	997.3	925.2	..	34.6	21.3	12.5	15.3	31	..	3.0	..	2.4	0	0	25	0	1	0	3	2	1	4	15	2	5	0	
		1730	"	993.2	922.1	..	36.6	21.7	11.9	14.9	26	..	1.9	..	3.3	0	0	25	0	1	0	0	0	1	3	4	15	2	0	
		2330	"	996.8	923.6	..	28.5	20.4	15.4	17.9	47	..	2.3	..	1.3	0	0	11	4	5	0	1	1	0	0	0	19	0		
Punjab (India) (Including Delhi)																														
New Delhi		0230	216	996.5	972.9	..	31.9	21.9	15.7	18.1	39	..	1.9	..	15.4	0	5	24	2	0	2	4	0	3	12	6	1	0		
		0530	"	997.3	973.5	..	30.3	21.6	16.0	18.9	45	..	2.5	..	16.1	0	5	25	1	1	4	2	1	2	9	10	0	0		
		0830	"	998.8	975.1	-0.1	32.7	22.9	17.0	20.3	42	-4	2.4	-0.1	21.2	0	15	14	2	1	4	3	0	0	10	9	1	0		
		1130	"	998.0	974.9	..	38.3	24.0	15.6	18.5	30	..	2.2	..	21.2	0	13	17	2	1	4	3	0	1	5	14	0	0		
		1730	"	994.1	971.1	..	39.9	24.0	14.1	17.2	25	..	3.0	..	18.0	0	11	19	4	2	4	2	0	2	1	15	0	0		
		2330	"	996.7	973.1	..	33.2	22.8	16.3	19.3	39	..	1.7	..	13.5	0	3	26	1	0	3	5	1	5	7	7	1	0		
Pi:sar		0530	221	997.4	973.0	..	28.9	22.1	17.9	20.7	53	..	3.1	..	4.5	0	0	27	1	1	2	3	6	8	5	1	3	0		
		0830	"	998.8	974.6	+0.7	31.8	23.4	17.2	21.9	48	0	1.3	-0.2	7.7	0	0	25	3	3	0	1	4	8	3	5	0	0		
		1130	"	998.2	974.6	..	39.3	24.7	16.3	19.1	28	..	2.8	..	6.4	0	0	30	3	2	0	4	0	1	2	7	4	2	0	
		1730	"	994.5	971.1	..	40.5	24.1	14.0	16.7	24	..	2.2	..	7.8	0	0	28	5	5	4	0	1	2	7	4	6	3	0	
Karoal		0830	249	998.3	971.0	..	29.2	21.6	15.8	19.8	46	..	1.1	..	..	0	0	2	0	0	1	0	0	1	0	0	28	0
		1730	"	994.5	968.1	..	39.8	23.5	13.1	15.7	23	..	1.8	..	..	0	0	8	0	0	0	0	1	0	1	3	22	0
Patiala		0830	251	998.9	971.5	..	31.9	22.7	17.3	19.8	43	..	1.5	..	7.1	0	1	17	2	0	0	7	0	1	1	7	12	0		
		1730	"	994.3	967.4	..	39.6	23.4	12.7	15.5	23	..	2.1	..	9.0	0	0	28	6	0	0	3	2	0	3	14	2	0		
Ambala		0830	272	998.1	968.6	-0.1	32.4	22.9	17.6	20.0	43	-4	1.2	-1.0	3.3	0	0	14	0	0	0	6	0	2	0	0	18	8	0	
		1730	"	993.9	965.2	..	40.3	24.3	14.4	17.0	23	..	0.6	..	4.1	0	0	22	0	0	1	0	0	1	0	2	0	0	16	0
Ambala (P. B. O.) . . .		0230	278	995.9	965.7	..	31.1	21.2	15.7	16.9	41	..	1.2	..	11.4	0	2	27	3	2	1	4	2	3	7	7	1	0		
		0530	"	996.8	966.3	..	29.4	20.7	16.0	17.0</td																				

(b) Mean of 29 days

(R) Register not received.

(f) Mean of 25 days.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JUNE, 1958 (JYAISSHA II—ASADHA 9, 1880 SAKA)

Division and station.		Hour of observation I.S.T		Height of barometer cistern above mean sea level in metres.		Mean pressure in millibars.		Mean temperature in °C		Departure from normal.		Vapour pressure in mbs.		Relative humidity %.		Cloud amount (Octas).		(Wind speed Km. p.h.).		No. of observations.									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28		
Punjab (India) Including Delhi—Contd.	Ferozepur	0830	200	997.0	975.1	..	31.2	23.9	19.4	23.7	50	..	0.1	..	1.8	0	0	14	0	6	0	4	0	1	1	2	16	0	
		1730	"	993.1	971.9	..	40.5	27.1	20.0	25.2	33	..	0.4	..	1.9	0	0	15	1	3	0	2	0	1	4	4	6	0	
Amritsar		0530	234	997.4	971.3	..	25.9	20.4	16.9	19.1	61	..	1.4	..	5.8	0	0	24	1	1	9	3	1	1	3	5	2	6	0
		0830	"	998.5	972.9	..	31.7	22.2	16.1	19.1	42	..	1.0	..	11.7	0	4	24	2	1	8	5	1	1	3	3	2	7	0
Pathankot		1130	"	997.8	972.7	..	37.4	23.4	14.4	17.3	29	..	1.2	..	15.3	0	6	24	6	1	4	3	4	3	2	11	6	0	1
		1730	"	994.0	969.1	..	39.2	23.1	12.4	15.0	23	..	1.4	..	14.8	0	4	26	1	0	5	2	2	2	11	6	0	1	
Pathankot (Aerodrome)		0830	344	999.0	961.7	..	32.1	21.7	14.8	17.3	37	..	2.1	..	4.6	0	0	18	0	2	6	5	5	0	0	12	0	0	
		1730	"	995.6	959.0	..	39.3	23.8	14.1	16.9	27	..	3.0	..	9.9	0	3	26	3	4	0	1	3	2	11	5	1	0	
Himachal Pradesh	Bilaspur	0830	312	998.4	964.7	..	33.0	20.7	11.7	14.3	30	..	2.2	..	4.2	0	0	27	0	10	8	5	2	1	1	0	3	0	
		1130	"	997.5	964.3	..	37.4	22.0	10.7	13.9	23	..	2.2	..	6.6	0	0	29	0	2	2	3	3	3	10	5	4	1	0
Mandi		1730	"	994.1	961.1	..	38.6	21.7	8.3	11.7	19	..	3.0	..	10.0	0	4	26	1	5	0	2	1	3	12	6	0	0	
		0830	493	999.0	945.5	..	29.9	20.4	14.6	16.4	41	..	2.1	..	2.8	0	0	17	1	4	3	3	3	2	0	1	13	0	
Jammu and Kashmir	Srinagar	1730	"	994.1	942.0	..	37.5	21.7	11.2	13.0	23	..	2.4	..	6.3	0	0	30	2	2	1	0	5	6	3	7	0	4	
		0530	1587	1456.2	837.1	..	14.0	12.7	11.9	13.6	87	..	1.6	..	1.5	0	0	14	0	0	0	0	11	0	0	1	2	16	0
Gulmarg		0830	1463.9	838.1	+1.9	19.2	14.9	12.1	14.5	64	-11	2.1	-0.1	2.4	0	0	20	0	0	0	0	6	2	3	4	5	10	0	
		1130	"	1458.3	837.8	..	23.8	16.5	12.1	14.3	49	..	2.7	..	2.2	0	0	21	2	0	0	0	7	1	1	7	3	9	0
Leh		1730	"	1433.8	835.5	..	25.9	16.9	11.5	13.8	42	..	4.6	..	4.9	0	0	22	1	0	0	0	6	1	4	7	3	8	0
		0830	2655	3102.6	738.3	+1.0	14.8	10.4	6.6	9.7	61	-7	2.1	-0.6	3.1	0	0	25	0	4	10	8	0	0	0	3	5	0	
Skardu	(R)	0830	2288																										
		1730	"																										
Gilgit	(R)	0830	1491																										
		1730	"																										
Misgar	(R)	0830	3106																										
		1730	"																										
Jammu Rajasthan (West) Sri Ganganagar		0830	"	"	"	..	31.5	20.4	12.8	15.1	33	-11	1.9	-0.3	10.8	0	0	30	0	26	0	0	0	4	0	0	0	0	
		0530	177	996.6	977.1	..	29.7	20.8	14.6	17.4	42	..	0.5	..	4.2	0	1	17	0	2	2	1	3	7	1	2	12	0	
Churu		0830	"	997.9	998.6	..	33.4	22.8	16.3	19.0	37	-9	0.5	-0.2	6.6	0	1	22	0	0	2	5	2	6	5	3	7	0	
		1130	"	997.4	978.5	..	39.3	24.7	15.9	19.9	27	..	0.2	..	9.3	0	3	19	0	1	1	4	0	8	5	3	8	0	
Bikaner		1730	"	993.0	974.3	..	41.7	23.9	12.5	14.4	19	..	1.2	..	4.0	0	1	18	0	4	1	1	0	6	5	2	11	0	
		0830	291	999.5	967.8	..	32.3	23.3	18.1	21.4	45	..	3.4	..	15.4	0	9	20	1	0	1	3	3	6	14	1	1	0	
Bikaner (P.B.O.)		1730	"	995.1	964.2	..	39.2	23.5	15.1	15.9	27	..	5.0	..	19.2	0	10	20	5	1	3	1	0	4	13	3	0	0	
		0830	224	998.7	974.3	+0.3	32.9	23.5	18.2	21.0	44	-7	0.2	-1.1	13.1	0	1	28	0	1	1	1	2	17	4	3	1	0	
Jaisalmer		1730	"	993.7	970.1	..	42.4	24.0	12.8	14.7	19	..	0.8	..	8.7	0	0	30	0	1	0	0	0	13	5	11	0	0	
		0530	224	997.3	972.7	..	31.5	25.3	22.3	27.2	60	..	0.7	..	11.1	0	0	28	0	1	0	0	2	11	11	3	0	2	
Phalodi		1130	"	997.9	973.9	..	38.8	28.4	23.4	30.7	43	..	0.7	..	12.4	0	3	27	1	2	0	0	7	15	4	0	0	1	
		2330	"	996.3	972.1	..	35.4	26.5	22.4	27.7	48	..	1.6	..	13.5	0	3	25	0	0	0	0	2	10	12	2	0	2	
Nagaur		0830	242	998.8	972.2	..	29.5	25.6	23.0	29.1	70	..	0.2	..	25.9	0	20	10	0	0	0	0	0	14	14	0	0	1	0
		1730	"	993.5	968.4	..	42.4	26.2	17.8	20.6	24	..	0.8	..	22.1	0	13	16	0	0	0	0	1	14	14	0	0	1	0
Jodhpur		0830	224	998.4	973.8	..	32.2	23.7	18.5	22.1	47	..	1.3	..	14.4	0	7	22	0	2	0	0	0	20	7	0	1	0	0
		0530	"	999.0	974.3	..	30.1	24.0	20.5	24.7	59	..	1.3	..	14.7	0	7	17	13	1	1	0	1						

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JUNE, 1958 (JYAIKTHA II—ASADH 9, 1880 SAKA)

Division and station.	Hour of observation I. S. T.	Height of barometer cistern above mean sea level in metres.	Mean pressure in millibars.				Mean temperature in °C.				Vapour pressure in mbs.	Relative humidity %.	Departure from normal.	Cloud amount (Octas).	Wind speed (Km.p.h.)	No. of observations.														
																Wind direction.														
			At mean sea level in g. p.m. or nearest isobaric level.	At station level.	Departure from normal.	Dry bulb.	Wet bulb.	Dew point.	At station level.	Departure from normal.						N	NE	E	SE	S	SW	W	NW	Calm.	Variable					
1			2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
Rajasthan (West)—Contd.	1730	194	995.0	974.4	..	41.1	26.0	18.1	21.5	28	..	0.9	..	15.5	0	6	24	0	0	0	1	12	13	2	2	0	0	0		
Bamer—Contd.	2330	"	998.1	976.9	..	33.7	26.1	22.2	27.5	53	..	1.6	..	16.3	0	5	23	0	0	0	1	6	14	7	0	2	0	0		
Rajasthan (East)	0830	271	999.2	968.5	..	33.6	23.2	16.9	19.6	41	..	2.6	..	6.5	0	0	26	0	5	2	4	2	1	6	6	4	4	1		
Alwar	1730	"	995.5	966.1	..	39.0	24.1	15.5	17.4	29	..	4.1	..	9.7	0	2	24	2	7	3	1	0	6	2	4	4	1			
Sikar	0830	433	1000.0	953.2	..	31.2	24.4	20.8	25.2	54	..	1.8	..	2.8	0	0	28	0	1	2	2	0	11	11	1	2	0			
Jaipur	1730	"	995.8	950.1	..	38.1	26.8	21.2	25.1	39	..	3.6	..	2.7	0	0	27	0	1	5	1	2	3	14	1	3	0			
Jaipur	0830	436	999.7	952.6	..	31.9	23.4	18.4	21.6	48	-1	2.5	+0.3	10.5	0	1	26	1	2	0	0	2	6	13	3	3	0			
Jaipur	1130	"	998.5	952.3	..	37.5	24.7	16.9	20.7	33	..	1.0	..	11.7	0	2	28	1	1	0	2	5	11	9	0	0	0			
Jaipur (Sanganer Aerodrome)	0230	390	997.8	953.9	..	29.3	21.7	16.8	20.2	50	..	2.0	..	..	0	1	25	1	3	1	1	0	5	9	6	4	0	
Jaipur	0530	"	998.7	955.7	..	27.6	21.2	16.6	20.3	54	..	2.2	..	..	0	5	23	1	1	2	2	1	2	14	5	2	0	
Jaipur	0830	"	999.0	957.0	..	33.7	23.1	17.4	19.0	45	..	2.3	..	..	0	4	26	4	1	1	1	1	4	10	8	0	0	
Jaipur	1130	"	998.5	956.9	..	36.5	24.3	19.7	20.2	33	..	1.8	..	..	0	7	22	1	0	3	2	3	2	12	6	1	0	
Jaipur	1730	"	994.6	953.2	..	38.0	23.3	13.0	15.0	27	..	3.5	..	..	0	5	20	2	1	5	1	0	6	5	5	5	0	
Jaipur	0830	436	998.2	955.8	..	31.1	22.1	15.9	19.6	45	..	3.2	..	..	0	0	29	2	1	3	2	0	3	10	8	1	0	
Jaipur	1730	"	993.8	975.3	..	40.0	24.2	14.5	16.5	25	..	(b) 5	..	(b) 9.8	0	2	27	5	1	4	0	0	3	8	8	0	0			
Ajmer	0830	486	1000.0	947.5	-0.1	30.9	23.2	18.9	23.0	52	-4	1.5	-0.7	15.3	0	4	26	1	0	1	1	14	12	0	0	0				
Ajmer	1730	"	995.3	944.2	..	38.1	23.3	14.7	18.3	28	..	2.2	..	9.5	0	0	30	1	0	2	1	2	8	12	4	0	0			
Kotah	0530	257	999.1	970.9	..	30.5	22.9	18.2	21.8	51	..	2.3	..	9.8	0	0	22	0	0	0	0	1	9	12	0	8	0			
Kotah	0830	"	1000.3	927.3	-0.5	33.4	24.3	18.7	22.7	45	-2	2.4	-0.2	4.9	0	0	22	0	0	0	0	1	6	4	3	15	0			
Kotah	1130	"	999.7	972.1	..	38.3	25.5	18.4	23.3	38	..	2.0	..	2.8	0	0	15	1	0	0	0	0	4	12	3	10	0			
Kotah	1730	"	995.4	968.1	..	39.0	24.6	16.6	19.3	29	..	4.0	..	4.0	0	0	20	1	0	0	0	0	7	8	1	13	0			
Kotah	2330	"	999.0	971.1	..	32.1	23.8	18.5	22.8	46	..	3.7	..	3.8	0	0	18	1	1	0	0	2	5	7	1	12	0			
Chambal	0830	351	1000.5	962.5	..	31.6	25.4	22.1	27.7	59	..	3.2	..	8.6	0	0	30	2	0	1	2	3	7	11	4	0	0			
Chambal	1730	"	995.8	958.5	..	38.0	26.8	21.0	25.9	42	..	5.2	..	10.9	0	2	28	4	0	1	2	2	6	6	9	0	0			
Jhalawar	0830	321	1000.6	965.6	+0.4	30.7	24.1	20.3	24.2	58	-5	2.7	-0.4	6.4	0	0	25	0	0	1	1	2	9	11	1	5	0			
Jhalawar	1730	"	995.9	961.6	..	38.7	25.1	16.9	21.1	33	..	3.1	..	7.3	0	0	29	1	3	1	1	0	6	15	2	1	0			
Udaipur	0230	582	1000.2	937.0	..	27.9	22.2	18.9	22.1	61	..	2.1	..	5.7	0	0	15	0	0	1	0	0	6	3	5	0	15	0		
Udaipur	0530	"	1000.5	937.1	..	26.6	22.1	19.7	23.5	68	..	2.1	..	3.2	0	0	15	0	0	1	0	0	1	4	8	5	1	10	0	
Udaipur	0830	"	1001.2	938.4	6	29.8	22.8	19.1	23.2	55	-8	2.2	-0.2	4.2	0	0	20	1	0	0	0	1	4	8	5	1	10	0		
Udaipur	1130	"	1000.4	938.3	..	33.9	23.7	18.3	21.6	41	..	2.4	..	6.2	0	0	28	0	1	2	2	8	7	7	1	2	0			
Udaipur	1730	"	996.4	935.1	..	35.9	23.6	17.6	21.2	36	..	3.0	..	6.2	0	1	27	0	1	2	2	8	7	1	2	0				
Udaipur	2330	"	1000.3	937.6	..	30.2	22.7	18.7	21.3	52	..	2.6	..	7.7	0	1	23	1	1	0	0	0	4	6	9	3	6	0		
Eripura (Jawai Dam)	0830	295	1001.1	968.9	..	30.5	26.1	23.3	29.7	69	..	2.0	..	11.0	0	2	28	0	0	0	0	0	6	14	6	4	0	0		
Madhya Pradesh (West) Gwalior (P.B.O.)	1730	"	995.9	964.7	..	39.4	26.9	21.2	25.3	37	..	2.0	..	12.8	0	1	29	0	0	0	0	1	7	8	12	2	0			
Madhya Pradesh (West) Gwalior (P.B.O.)	0230	207	996.9	974.4	..	32.7	22.0	14.9	17.7	37	..	3.0	..	11.1	0	6	19	0	0	2	3	1	5	11	3	5	0			
Madhya Pradesh (West) Gwalior (P.B.O.)	0530	"	997.5	974.9	..	31.4	21.9	15.9	18.7	41	..	3.3	..	9.1	0	4	17	1	0	2	1	0	5	12	0	9	0			
Madhya Pradesh (West) Gwalior (P.B.O.)	0830	"	998.9	976.5	+0.5	34.9	23.0	14.8	18.3	35	-8	2.7	+0.2	14.5	0	6	22	0	0	0	2	0	2	15	9	2	0			
Madhya Pradesh (West) Gwalior (P.B.O.)	1130	"	998.4	976.3	..	39.1	23.9	14.1	17.2	26	..	2.4	..	14.8	0	5	25	7	0	0	1	2	0	9	11	0	0			
Madhya Pradesh (West) Gwalior (P.B.O.)	1730	"	994.5	972.5	..	39.4	23.5	12.8	16.0	25	..	4.1	..	12.2	0	5	2	6	4	1	1	2	8	10	2	4	0			
Madhya Pradesh (West) Gwalior (P.B.O.)	2330	"</																												

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JUNE, 1958 (JYAISTA II—ASADHA 9, 1880 SAKA)

Division and station.	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars.			Mean temper in °C			Cloud amount (Oktas).			Wind speed (km. p.h.)	No. of observations.																
			At mean sea level r height in g.p.m. of nearest standard isobaric level.			At station level.			Departure from normal.				Departure from normal.			Wind direction.													
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28		
1																													
Madhya Pradesh (West)																													
Indore—contd.	1130	567	1000.0	940.1	..	33.1	24.1	19.7	23.5	49	..	3.9	..	19.7	0	12	18	1	1	1	0	0	10	12	5	0	0		
	1730	"	997.8	936.7	..	33.8	23.1	16.9	20.5	46	..	5.1	..	22.1	0	13	16	2	2	2	2	0	5	13	3	1	0		
Bhopal (Bairagarh)	0230	523	999.4	942.6	..	28.5	21.1	16.3	19.8	54	..	3.2	..	16.4	0	7	20	1	1	1	0	3	12	6	3	3	0		
	0530	"	1000.2	943.2	..	27.4	21.2	17.6	21.2	59	..	3.5	..	15.8	0	6	23	0	1	0	0	0	2	5	13	8	1	0	
	0830	"	1000.9	944.5	+0.2	30.4	22.7	18.3	22.0	53	-10	3.3	-0.8	21.4	0	17	12	1	2	0	1	2	1	12	10	1	0	0	
	1130	"	999.5	944.1	..	35.5	23.8	17.4	21.1	38	..	2.6	..	18.7	0	10	19	2	2	1	0	0	0	4	11	9	1	0	
	1730	"	995.8	940.5	..	35.5	22.7	14.3	18.3	37	..	4.5	..	23.6	0	19	10	3	1	1	1	2	6	6	9	1	0	0	
	2330	"	999.7	943.1	..	29.5	22.0	16.6	21.0	52	..	3.9	..	14.4	0	5	21	3	0	1	1	3	6	8	4	4	0	0	
Khandwa	0830	318	1002.1	967.2	0	29.9	24.3	21.4	25.7	62	-3	5.9	+1.7	13.2	0	3	27	1	0	1	0	2	6	17	3	0	0		
	1730	"	996.5	962.5	..	37.6	24.1	15.7	19.0	34	..	6.4	..	10.1	0	3	27	3	1	0	1	0	11	6	8	0	0	0	
Harsingabad	0830	302	1001.3	968.2	-0.2	31.2	23.4	18.7	22.3	48	-15	2.7	-1.7	2.1	0	0	10	0	0	0	0	0	6	3	1	20	0		
	1730	"	995.3	963.1	..	37.8	24.0	15.3	18.5	32	..	5.8	..	2.0	0	0	13	1	0	0	0	0	1	4	5	2	17	0	
Bulbul	0830	653	1002.0	931.6	..	28.7	23.1	20.4	24.3	64	..	3.7	..	10.9	0	1	27	0	1	0	0	0	0	4	12	11	2	0	
	1730	"	996.2	927.4	..	34.5	23.4	17.6	20.1	42	..	5.0	..	11.9	0	2	28	3	3	0	0	1	1	7	6	10	0	0	
Chhindwara	0830	685	1000.5	927.2	..	30.3	22.0	17.1	20.4	51	..	3.7	..	7.0	0	4	25	2	1	1	2	0	2	5	16	1	0		
	1730	"	996.4	924.1	..	33.0	22.7	16.2	20.0	46	..	5.8	..	5.9	0	1	29	3	2	2	3	4	3	4	9	0	0		
Seoni	0830	619	1000.3	934.0	+0.3	30.9	23.2	19.4	22.1	55	-5	4.3	0	5.7	0	0	26	3	4	2	0	3	5	2	7	4	0		
	1730	"	995.9	930.9	..	33.8	23.9	19.0	22.3	47	..	5.8	..	4.5	0	0	26	5	3	0	2	4	6	1	5	4	0		
Sagar	0830	551	999.9	940.6	+0.4	30.6	21.9	16.7	20.1	49	-9	3.2	-0.6	15.2	0	7	23	0	1	3	3	2	0	1	12	8	0	0	
	1730	"	995.0	936.8	..	35.8	22.7	14.8	18.2	34	..	4.7	..	12.2	0	0	30	1	3	3	2	0	1	12	6	5	1	0	
Nowrang	0830	229	999.7	974.8	+0.4	33.7	24.5	19.1	23.0	47	-7	3.5	-0.5	6.0	0	0	29	1	0	1	1	3	12	6	5	1	0		
	1730	"	994.9	970.5	..	39.2	26.0	18.3	22.6	37	..	4.6	..	5.4	0	0	28	1	5	2	0	1	1	6	4	9	2	0	
Madhya Pradesh (East)																													
Sutna	0530	317	997.8	963.1	..	30.2	22.5	17.7	21.0	51	..	2.8	..	5.6	0	0	21	1	0	0	1	0	6	19	3	9	0		
	0830	"	998.8	964.5	0	34.4	24.1	18.1	21.8	42	-10	2.8	-1.2	6.0	0	0	27	0	1	1	0	3	4	13	5	3	0		
	1130	"	998.0	964.3	..	38.7	24.9	16.7	20.1	31	..	3.3	..	9.0	0	2	26	0	0	1	0	2	3	6	16	2	0		
	1730	"	994.5	960.8	..	38.5	24.8	17.0	20.1	33	..	4.2	..	6.4	0	1	28	3	1	3	2	0	2	4	14	1	0		
Umaria	0830	459	998.9	949.7	..	33.1	24.7	20.5	25.0	52	-6	3.7	-1.4	10.9	0	4	20	0	2	1	1	0	4	11	5	6	0		
	1730	"	994.3	946.0	..	37.8	25.5	19.6	23.6	38	..	4.9	..	8.5	0	1	22	0	2	2	2	0	0	5	12	7	0		
Jabalpur	0530	393	999.1	956.1	..	28.4	21.5	17.1	20.0	54	..	5.0	..	4.0	0	0	18	1	0	0	2	1	1	9	10	3	4	0	
	0830	"	1000.1	957.6	+0.3	32.0	23.2	17.6	21.3	48	-7	4.4	+0.5	7.7	0	0	26	1	0	0	0	2	1	9	10	3	4	0	
	1130	"	998.6	956.9	..	37.3	24.4	16.6	20.2	35	..	3.1	..	7.5	0	0	27	4	2	1	0	0	0	9	8	3	3	0	
	1730	"	995.0	953.3	..	37.0	24.2	16.3	19.8	36	..	5.3	..	7.1	0	0	24	2	3	0	0	1	1	7	8	3	6	0	
Mandla	0830	443	1000.1	952.3	..	31.6	23.9	19.4	23.6	53	..	5.0	..	5.7	0	0	17	1	0	0	1	4	7	3	1	13	0		
	1730	"	995.1	948.2	..	35.8	25.2	19.1	23.4	43	..	4.9	..	9.5	0	0	27	7	1	1	1	2	1	2	4	3	8	0	
Pendra	0530	625	998.8	931.3	..	27.4	20.3	15.3	18.6	55	..	3.9	..	9.3	0	3	24	6	0	1	2	7	5	1	5	3	0		
	0830	"	999.3	932.6	0	31.2	21.8	15.7	19.2	48	-14	3.7	-0.6	10.7	0	1	26	7	0	0	2	7	5	2	4	3	0		
	1130	"	998.0	932.3	..	35.3	22.7	14.8	18.4	36	..	3.4	..	11.0	0	0	30	10	3	2	5	2	1	4	2	3	3	5	4
	1730	"	994.9	929.1	..	34.2	22.0	14.0	17.5	38	..	5.0	..	9.4	0	0	29	13	2	0	2	5	6	1	0	1	0		
Ambikapur	0830	611	999.7	931.6	..	29.1	21.1	15.9	19.2	52	..	4.8	..	10.3	0	4	24	3	1	0	2	7	5	4	6	2	0		
	1730	"	994.9	930.7	..	35.5	22.4	14.7	17.6	36	..	4.2	..	8.8	0	0	30	9	3	2	2	0	3	3	8	5	1	6	0
Champa	0830	245	1000.0	973.3	..	33.0	23.6	18.6	21.1	46	..	4.4	..	7.0	0	0	26	0	2	6	0	2	0	10	6	4	0	0	
	1730	"	995.1	969.0	..	39.0	24.8	16.3	19.7	32	..	6.4	..	9.3	0	3	21												

TABLE III.—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JUNE, 1958 (YAISTHA 11—ASADHA 9, 1880 SAKA).

Division and station.		Hour of observation I.S.T.		Mean pressure in millibars.																No. of observations.															
				At mean sea level of height in g.p.m. or nearest standard level.								At station level.								Cloud amount (Oktas).								Wind speed (K.m. p.h.)							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28								
Madhya Pradesh (East)																																			
<i>Contd.</i>		Jagd.pur (P.B.O.)— <i>Contd.</i>		1730	553	997.3	938.4	..	32.5	23.2	18.3	22.2	49	..	7.1	..	5.8	0	1	25	0	0	2	0	9	10	2	3	4	0	0				
Gujarat	Deesa	• • •	2330	"	1000.8	940.8	..	27.5	22.5	19.9	23.6	67	..	5.6	..	2.4	0	0	13	0	1	1	2	4	5	0	0	17	0	0					
idar	• • •	0830	136	1002.1	987.0	+0.2	30.1	26.1	24.5	30.7	72	..	5.6	..	8.7	0	1	27	0	0	0	3	10	8	6	1	2	0	0	0					
Ahmedabad	• • •	1730	"	996.6	982.3	..	39.1	27.2	21.5	26.2	37	..	5.1	..	9.5	0	0	30	1	0	0	2	3	13	9	2	0	0	0						
Jewad	• • •	0830	219	1002.4	978.1	..	29.0	25.9	24.5	30.9	77	..	4.5	..	8.5	0	0	30	0	1	1	0	3	12	13	0	0	0	0						
Baroda (Aerodrome)	•	0230	55	1001.3	995.2	..	29.3	25.7	24.1	30.0	74	..	2.1	..	11.4	0	1	26	2	0	0	0	0	6	5	14	0	3	0						
Breach	• • •	0530	"	1001.6	995.4	..	28.2	25.7	24.7	31.0	81	..	3.9	..	9.4	0	0	28	0	0	0	0	3	5	9	11	0	2	0						
Surat	• • •	0830	"	1002.9	996.7	0	29.8	26.3	24.6	31.4	75	-4	4.7	-0.1	13.3	0	2	27	0	0	0	0	1	4	12	11	1	1	0						
Saurashtra and Kutch	Naliya	• • •	1130	"	1002.5	996.3	..	33.9	26.8	23.5	29.4	57	..	3.5	..	14.1	0	3	26	0	0	0	0	1	7	9	11	1	1	0					
Bhuj (P.B.O.)	•	1730	"	998.0	992.0	..	38.3	26.7	20.8	25.4	41	..	2.9	..	20.3	0	16	13	1	0	0	0	0	8	9	9	2	1	0						
Dwarka	• • •	2330	"	1001.4	995.3	..	30.8	26.3	24.3	30.6	70	..	2.2	..	14.4	0	4	24	0	0	2	0	7	6	12	1	2	0							
Jamnagar	• • •	0830	333	1002.8	966.1	..	28.5	24.4	22.5	27.3	71	-4	3.4	-2.0	25.6	0	23	6	0	0	0	0	1	13	14	1	1	0							
Rajkot (Aerodrome)	•	1730	"	998.3	962.6	..	35.5	24.2	17.6	20.9	39	..	2.6	..	23.8	0	18	12	1	0	0	0	1	0	20	8	0	0	0						
Surendranagar	• • •	0530	34	1002.5	998.5	..	28.0	25.8	24.8	31.3	83	..	4.2	..	2.7	0	0	22	0	0	0	0	0	2	18	2	0	8	0						
Bhuj (Aerodrome)		0830	"	1003.6	999.7	..	30.0	26.1	24.4	30.7	73	-3	5.2	+0.6	4.4	0	0	25	0	0	0	0	0	0	21	4	0	5	0						
Surat		1130	"	1003.3	999.4	..	33.8	26.2	22.7	27.7	55	..	4.0	..	6.3	0	0	27	0	0	0	0	0	0	19	8	0	3	0						
Kandla		1730	"	999.3	995.4	..	36.5	26.7	22.0	26.9	47	..	2.4	..	7.4	0	0	28	0	0	0	1	0	2	18	7	0	2	0						
Kandla		2330	"	1002.4	998.5	..	29.7	26.4	25.0	31.7	77	..	2.8	..	7.3	0	0	29	0	0	0	0	2	1	25	1	0	1	0						
Bhuj (Aerodrome)		0830	38	1003.4	999.2	..	30.0	26.2	24.6	30.8	74	..	4.7	..	11.2	0	2	27	1	0	0	2	3	16	5	2	1	0							
Bhuj (Aerodrome)		1130	"	1003.1	998.9	..	33.4	26.3	23.2	28.3	57	..	3.7	..	11.4	0	4	24	0	0	0	0	6	12	10	0	2	0							
Surat		1730	"	990.0	994.9	..	36.0	26.9	22.8	27.9	50	..	2.9	..	16.5	0	11	18	0	1	0	1	5	17	4	1	1	0							
Bhuj (Aerodrome)		0830	17	1003.5	1001.5	..	29.3	25.9	24.4	30.8	75	..	4.8	..	8.1	0	0	30	0	0	0	0	1	9	15	4	1	0							
Bhuj (Aerodrome)		1730	"	999.7	997.8	..	33.7	26.5	23.1	28.7	54	..	2.8	..	13.3	0	0	30	0	0	0	0	0	0	29	1	0	0							
Bhuj (Aerodrome)		0530	12	1002.5	1001.2	..	27.9	25.8	25.0	31.6	84	..	4.0	..	5.8	0	0	26	0	0	0	0	2	7	15	2	0	4							
Bhuj (Aerodrome)		0830	"	1003.7	1002.4	+0.2	30.2	26.5	24.9	31.5	73	-1	4.9	-0.8	8.6	0	1	29	0	0	0	0	2	7	17	4	0	0							
Bhuj (Aerodrome)		1130	"	1003.7	1002.4	..	32.8	27.0	24.5	31.0	63	..	4.3	..	11.2	0	3	26	0	0	0	0	1	4	19	3	2	1							
Bhuj (Aerodrome)		1730	"	1000.6	999.3	..	32.0	26.9	24.9	31.3	67	..	3.9	..	19.3	0	11	19	0	0	0	0	0	0	11	19	0	0	0						
Bhuj (Aerodrome)		2330	"	1002.9	1001.6	..	29.1	26.5	25.4	32.5	81	..	4.2	..	15.4	0	8	22	0	0	0	1	2	8	16	3	0	0							
Bhuj (Aerodrome)		0830	"	1003.7	1002.4	..	30.3	27.2	25.7	33.6	77	..	2.2	..	22.4	0	18	12	0	0	0	0	0	0	14	3	13	0	0						
Bhuj (Aerodrome)		1730	"	1001.1	998.9	..	32.1	27.5	25.5	33.0	69	..	3.0	..	30.3	0	30	0	0	0	0	0	0	0	19	4	7	0	0						
Bhuj (Aerodrome)		0830	"	1001.6	989.9	..	30.1	25.9	24.1	30.0	70	0	3.6	-0.5	13.3	0	3	27	0	0	0	0	0	0	2	21	7	0	0						
Bhuj (Aerodrome)		1130	"	1001.1	989.6	..	35.0	26.1	22.0	26.6	48	..	2.8	..	16.4	0	8	22	1	0	1	0	1	0	17	9	1	0	0						
Bhuj (Aerodrome)		1730	"	998.3	986.9	..	35.4	26.3	22.0	26.9	47	..	1.9	..	19.7	0	13	17	0	1	0	0	1	0	1	19	9	0	0	0					
Bhuj (Aerodrome)		2330	"	1001.0	989.3	..	29.3	25.9	24.9	30.8	74	..	1.5	..	16.1	0	6	23	0	0	0	0	0	0	0	21	7	1	1	0					
Bhuj (Aerodrome)		0830	80	1001.6	992.7	..	30.4	26.5	24.7	31.5	72	..	3.5	..	19.1	0	13	17	1	0	0	0	0	0	0	2	15	11	1	0					
Bhuj (Aerodrome)		1130	"	1001.1	992.3	..	35.3	26.7	22.8	27.9	49	..	2.6	..	24.4	0	18	11	0	1	0	0	1	0	0	2	15	11	1	1					
Bhuj (Aerodrome)		1730	"	998.3	989.6	..	35.7	26.8	22.9	27.9	48	..	2.0	..	28.6	0	22	8	0	0	0	0	0	0	0	2	15	10	1	1					
Kandla		0830	5	1002.3	1001.7	..	29.8	26.9	25.7	33.1	79	..	3.9	..	25.7	0	25	5	0	1	0	1	0	1	3	22	2	1	0						
Mandvi		1730	"	999.1	998.6	..	33.2	27.6	25.3	32.4	64	..	2.1	..	44.6	2	26	2	0	0	0	1	2	4	3	0	0	0							
Porbander		0830	"	1000.1	999.2	..	29.6	28.3	27.8	37.6	89	..	3.8	..	31.0	0	22	8	0	0	0	1	0	0	0	0	0	0							
Porbander		1730	"	1000.1	999.2	..	31.2	29.5	28.7	39.8	88	..	5.0	..	42.8	0	30	0	0	0	0	0	0	0	0	0	0	0							
Porbander (Aerodrome)		0830	7	1003.0	1002.2	..	29.5	27.5	26.9	35.1	85	..	5.1	..																					

TABLE III.—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JUNE, 1958 (JYAISTA II—ASADHA 9, 1880 SAKA)

Division and station.	Hour of observation I.S.T.	Height of barometer (centimetre above mean sea level in metres).	Mean pressure in millibars.			Mean temperature in °C.			Cloud amount (Oktas).			Wind speed (Km.p.h.).			No. of observations.																
			At mean sea level or height in 6 p.m. of nearest standard isobaric level.			At station level.			Dew point.			Vapour pressure in mb.			Departure from normal.			Mean amount.			Departure from normal.			Mean wind speed, Kms. per hour.			Wind direction.				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	Calm.	Variable	
Saurashtra and Kutch— Contd.																															
Bhavnagar . . .	0830	17	1003.7	1010.8	+0.6	30.0	26.1	24.4	30.7	72	+5	3.1	-1.9	4.7	0	0	29	0	0	0	1	2	16	3	7	1	0	0	0		
	1730	"	999.2	997.4	..	37.3	29.4	26.0	34.7	56	..	2.6	..	9.3	0	1	28	0	0	0	1	8	13	7	0	1	0	0	0		
Bhavnagar (Acrodrome)	0830	11	1003.3	1002.1	..	30.3	26.0	24.0	30.1	69	..	3.7	..	21.1	0	13	17	0	1	0	0	3	15	10	1	0	0	0	0		
	1130	"	1002.9	1001.7	..	34.6	26.2	22.2	27.2	51	..	2.9	..	22.8	0	14	15	0	0	6	1	2	13	7	0	1	0	0	0		
M. Dhuva . . .	0830	16	1003.6	1001.8	..	29.3	27.2	26.3	24.3	84	..	4.5	..	17.3	0	12	16	0	1	0	1	5	11	8	2	1	0	0	0		
	1730	"	1000.6	998.9	..	31.8	28.5	27.7	37.4	80	..	2.8	..	37.3	0	26	3	0	1	0	1	11	13	3	0	0	0	0	0		
Keshod . . .	0830	51	1003.6	997.9	..	30.3	26.0	25.1	30.5	73	..	5.6	..	26.7	0	25	5	2	0	0	1	1	11	14	0	0	0	0	0		
	1130	"	1003.5	997.8	..	33.1	26.7	24.5	29.7	61	..	4.6	..	31.6	0	28	2	1	0	0	0	2	9	17	1	0	0	0	0		
Veraval . . .	0230	8	1002.1	1001.2	..	28.6	27.0	26.4	34.4	88	..	3.2	..	22.8	0	14	16	0	0	0	1	2	3	21	3	0	0	0	0		
	0530	"	1002.1	1001.2	..	28.5	26.9	26.2	34.1	88	..	3.7	..	23.5	0	16	14	0	0	0	1	1	5	18	5	0	0	0	0		
	0830	"	1003.7	1002.8	+0.3	29.4	27.2	26.4	34.3	84	+2	4.2	-0.5	19.2	0	11	17	2	0	0	1	1	10	13	2	1	0	0	0		
	1130	"	1003.9	1003.0	..	30.9	27.6	26.4	34.1	77	..	4.3	..	22.7	0	18	11	2	0	0	1	1	10	13	2	1	0	0	0		
	1730	"	1001.4	1000.5	..	30.4	27.8	26.8	35.2	81	..	4.2	..	27.6	0	24	6	0	0	0	1	2	6	20	1	0	0	0	0		
	2330	"	1002.7	1001.8	..	29.0	27.3	26.5	35.0	87	..	3.3	..	22.3	0	15	15	0	1	0	1	2	3	19	4	0	0	0	0		
Nanikan Dahanu . . .	0830	5	1004.4	1003.9	+0.5	29.0	26.9	25.8	33.7	84	+1	4.4	-1.7	15.6	0	6	24	0	0	0	3	4	1	17	1	0	0	0	0		
	1730	"	1001.8	1001.3	..	30.6	27.9	26.6	35.4	80	..	5.3	..	22.4	0	20	10	0	0	1	1	5	21	0	0	0	0	0			
Mumbai (Colaba). .	0830	11	1005.2	1004.0	+0.1	29.3	26.0	24.5	30.9	76	-3	5.1	-0.7	11.8	0	3	26	2	0	0	2	4	7	13	1	1	0	0	0		
	1130	"	1005.3	1004.1	..	31.2	26.8	24.9	31.6	70	..	4.6	..	11.8	0	2	27	0	0	0	1	4	8	13	3	1	0	0	0		
Bombay (Santa Cruz Aerodrome).	0230	15	1003.7	1002.1	..	28.0	25.4	24.1	30.3	81	..	4.4	..	13.0	0	3	25	0	0	0	2	1	6	9	9	1	2	0	0		
	0530	"	1003.7	1002.1	..	27.6	25.2	23.9	30.1	81	..	4.7	..	12.3	0	4	21	0	1	0	0	3	3	9	8	1	5	0	0		
	0830	"	1005.2	1003.5	0	29.1	25.6	24.2	29.9	75	-2	5.1	-0.7	18.2	0	9	21	1	0	0	0	0	0	0	3	9	15	3	0	0	
	1130	"	1005.2	1003.5	..	30.7	26.1	24.0	29.9	69	..	5.2	..	25.3	0	24	6	0	0	0	0	0	0	0	2	12	13	3	0	0	
	1730	"	1002.7	1001.0	..	30.5	26.2	24.4	30.4	71	..	5.2	..	24.7	0	19	11	0	0	0	0	0	0	0	2	12	13	3	0	0	
	2330	"	1004.7	1003.1	..	28.1	25.5	24.3	30.6	81	..	4.7	..	15.0	0	6	23	0	0	0	1	0	7	10	9	2	1	0	0		
Alibag . . .	0830	7	1005.2	1004.4	-0.3	28.7	26.4	25.3	32.7	83	+3	4.7	-1.7	15.7	0	9	21	1	2	0	3	6	12	6	0	0	0	0	0		
Harnai . . .	0830	20	1005.4	1003.1	+0.6	28.1	26.2	25.2	32.4	83	0	5.9	..	14.3	0	6	23	1	1	2	5	4	5	9	2	1	0	0	0		
	1730	"	1003.1	1000.8	..	29.5	26.7	25.5	32.7	77	..	5.8	..	22.9	0	13	17	1	0	0	1	5	7	13	3	0	0	0	0		
Ratnagiri . . .	0830	35	1006.3	1002.3	+0.3	28.5	25.6	24.1	30.3	78	..	5.1	0	9	21	0	0	0	11	1	0	2	16	0	0	0	0	0	
	1730	"	1004.0	1000.0	..	30.0	26.3	24.9	31.2	75	..	5.1	0	12	18	0	0	0	0	0	0	0	11	18	0	0	0	0	0
Levagad . . .	0830	36	1006.2	1002.2	+0.5	28.5	26.1	24.7	31.9	82	-4	6.0	-0.2	21.1	0	13	17	2	1	1	5	1	3	8	9	0	0	0	0	0	
	1730	"	1004.1	1000.1	..	29.6	26.5	25.3	32.1	79	..	5.9	..	30.8	0	24	6	0	0	0	0	0	0	0	10	11	0	0	0	0	0
Vengurla . . .	0230	9	1005.8	1004.8	..	26.6	24.8	24.8	29.9	80	..	5.4	..	7.8	0	2	19	0	0	0	1	4	4	2	6	4	9	0	0	0	0
	0530	"	1005.7	1004.7	..	26.4	24.8	24.1	29.9	87	..	5.6	..	7.1	0	1	23	0	0	0	1	8	1	3	9	2	6	0	0	0	0
	0830	"	1007.0	1006.0	..	28.1	25.3	24.0	29.9	80	..	6.0	..	8.3	0	1	24	2	0	0	1	6	1	6	2	7	5	0	0	0	0
	1130	"	1007.0	1006.0	..	29.8	25.9	24.1	30.3	74	..	5.8	..	12.3	0	3	25	0	0	0	0	3	2	14	7	2	2	0	0	0	0
	1730	"	1004.8	1003.8	..	28.9	25.4	23.9	29.6	76	..	5.5	..	11.8	0	2	26	2	0	0	0	1	6	8	7	4	2	0	0	0	0
	2330	"	1006.8	1005.8	..	26.7	24.9	24.0	30.0	84	..	5.7	..	9.9	0	2	27	1	0	0	0	4	4	7	9	4	1	0	0	0	0
	0830	206	1003.5	980.8	..	29.5	24.5	22.5	26.7	66	..	5.6	..	15.7	0	11	19	0	0	0	1	0	0	0	9	18	2	0	0	0	0
	1730	"	999.0	976.7	..	35.2	25.2	20.0	23.8	44	..	4.6																			

TABLE III.—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JUNE, 1958 (JYAISTHA 11—ASADHA 9, 1880 SAKA)

TABLE III.—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JUNE, 1958 (JYAIKTHA II—ASADHA 9, 1880 SAKA).

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JUNE, 1958 (JYAISTA 11—ASADHA 9, 1880 SAKA) 305

Division and station		Hour of observation I.S.T.		Height of barometer (cistern above mean sea level) in metres		Mean pressure in millibars		Mean temperature in °C		Vapour pressure in mbs.		Cloud amount (Oktas)		Wind speed (Km.p.h.)		No. of observations													
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28		
Madras State—Contd.	Tuticorin . . .	0830	4	1007.8	1007.4	..	30.8	24.8	21.3	27.2	59	..	5.1	..	13.7	0	6	24	0	0	0	0	3	11	15	1	0	0	
		1730	"	1004.5	1004.1	..	33.4	24.7	20.8	23.9	49	..	4.2	..	22.1	0	16	14	0	0	0	1	3	4	21	1	0	0	
Pamban . . .	0830	11	1007.6	1006.3	+0.4	29.4	26.7	25.6	32.7	80	-5	3.8	+0.9	18.1	0	8	22	0	0	0	1	6	18	5	0	0	0		
		1730	"	1004.5	1003.2	..	29.5	26.9	25.8	34.5	80	..	6.1	..	20.2	0	13	17	0	0	0	0	13	16	1	0	0	0	
Mathurai . . .	0830	133	1006.6	991.8	-0.4	30.9	24.3	21.1	25.0	56	-1	5.6	+0.4	3.0	0	0	30	0	0	0	0	0	0	6	1	23	0	0	
		1730	"	1002.9	988.4	..	34.8	25.3	20.7	24.5	45	..	5.8	..	3.0	0	0	30	1	0	1	3	0	7	13	5	0	0	
Nagapattinam . . .	0830	9	1006.6	1005.6	0	30.7	25.6	23.2	29.2	65	+2	6.2	+2.0	15.7	0	5	25	0	0	0	0	3	17	10	0	0	0		
		1730	"	1003.3	1002.3	..	32.4	26.5	23.9	30.3	60	..	5.8	..	18.7	0	8	22	0	0	0	0	17	10	3	0	0	0	
Tiruchirappalli . . .	0230	88	1004.7	994.9	..	28.2	24.2	22.2	26.9	70	..	3.1	..	21.4	0	15	11	0	0	0	0	0	0	25	1	4	0		
	0530	"	1005.1	995.1	..	27.6	23.8	21.9	26.7	71	..	5.4	..	19.1	0	11	19	0	0	0	0	0	0	29	1	0	0		
	0830	"	1006.5	996.6	-0.4	29.9	24.7	22.2	26.8	63	+5	6.0	+1.7	25.2	0	18	12	0	0	0	0	0	0	29	1	0	0		
	1130	"	1005.5	995.8	..	34.3	25.4	21.1	25.2	47	..	5.4	..	32.2	0	25	5	0	0	0	0	0	0	1	28	1	0	0	
	1730	"	1002.5	992.9	..	34.7	25.3	20.7	25.8	45	..	6.6	..	30.0	1	18	11	0	0	0	0	0	0	3	0	23	4	0	
	2330	"	1006.0	996.1	..	29.0	24.4	22.0	26.9	67	..	3.1	..	32.0	1	19	10	0	0	0	0	0	0	1	2	27	0	0	
Coimbatore . . .	0830	409	1007.2	962.6	+0.7	27.0	22.9	20.9	24.7	70	-8	6.4	+1.9	18.8	0	10	20	0	0	0	0	0	0	15	15	0	0	0	
		1730	"	1004.4	959.6	..	28.8	23.2	20.3	24.2	61	..	6.5	..	21.3	0	18	12	0	0	0	0	0	0	12	16	2	0	0
Coimbatore (Peelamedu Aerodrome).	0530	398	1006.1	961.5	..	23.4	22.2	21.5	26.1	90	..	3.4	..	27.2	0	19	11	3	0	0	0	0	0	7	23	0	0	0	
	0830	"	1007.0	962.9	..	26.8	23.4	21.8	26.3	74	..	5.4	..	32.3	0	25	5	0	0	0	0	0	0	2	28	0	0	0	
	1130	"	1005.8	962.4	..	30.9	24.1	20.6	26.1	55	..	5.6	..	41.0	1	24	5	0	0	0	0	0	0	2	27	1	0	0	
	1730	"	1004.4	960.6	..	28.4	23.5	21.2	24.9	66	..	5.9	..	42.0	1	23	1	0	0	0	0	0	0	1	24	0	0	0	
	*2330	"	1007.3	962.8	..	24.0	22.7	21.8	26.4	36	..	3.8	..	33.0	1	21	4	0	0	0	0	0	0	1	25	0	0	0	
	0530	278	1005.5	974.4	..	25.5	23.6	22.6	27.5	83	..	5.3	..	4.8	0	0	26	0	0	0	0	0	0	5	16	5	0	4	
Salem . . .	0830	"	1006.8	975.9	-0.1	27.4	24.3	22.9	28.2	76	+2	5.1	+0.2	7.4	0	0	30	0	0	0	0	0	0	2	23	5	0	0	
	1130	"	1005.6	975.2	..	32.3	25.4	22.2	26.8	56	..	5.1	..	9.1	0	0	29	0	0	0	0	0	0	4	11	11	3	1	
	1730	"	1002.3	972.1	..	33.5	25.8	22.3	26.9	53	..	5.9	..	6.9	0	0	26	0	0	1	0	0	0	1	10	13	1	4	
	2330	"	1006.3	973.4	..	27.9	24.5	22.9	28.0	75	..	5.0	..	5.2	0	0	25	0	0	0	0	0	0	2	15	5	3	0	
	0830	127	1005.4	991.3	..	30.9	24.9	22.0	26.6	59	..	5.0	..	9.5	0	2	25	1	0	0	0	0	0	2	8	15	1	0	3
Cuddalore . . .	0530	12	1004.0	1002.7	..	28.1	25.8	24.7	31.4	82	..	4.8	..	3.7	0	0	20	0	0	0	0	0	0	4	15	1	0	10	
	0830	"	1005.8	1004.5	-0.3	31.1	27.2	25.6	32.9	73	+9	5.0	+0.7	5.4	0	0	28	0	0	0	0	0	0	7	18	3	2	0	
	1130	"	1004.9	1003.6	..	35.6	28.5	25.5	33.5	56	..	4.4	..	5.3	0	0	25	0	0	0	0	0	0	2	18	4	1	5	
	1730	"	1001.9	1000.6	..	33.1	28.9	27.1	36.4	74	..	5.7	..	7.4	0	0	28	0	2	0	0	12	1	11	1	1	2		
	2330	"	1004.9	1003.6	..	29.9	27.2	26.1	33.9	81	..	4.6	..	5.	0	0	21	0	0	0	0	0	0	1	9	10	1	0	9
	0530	214	1004.1	980.3	..	27.6	22.4	19.6	22.9	62	..	5.0	..	4.6	0	0	26	1	2	0	0	0	0	1	5	14	3	4	
Vellore . . .	0830	"	1005.5	981.8	-0.2	29.7	23.3	19.9	23.5	56	-7	5.1	+1.1	9.9	0	0	30	0	1	0	0	0	0	0	9	15	5	0	0
	1130	"	1004.6	981.1	..	33.7	24.3	19.5	22.7	44	..	4.8	..	10.8	0	0	30	1	0	0	0	0	0	0	9	15	5	0	0
	1730	"	1001.1	977.9	..	34.9	24.5	19.1	22.2	41	..	6.2	..	10.0	0	1	26	1	0	0	0	0	0	0	6	14	6	3	0
	2330	"	1004.8	981.1	..	30.1	23.2	19.6	22.7	54	..	4.2	..	4.5	0	0	22	0	0	0	0	0	0	0	2	16	4	8	0
	0530	16	1003.0	1001.3	..	30.2	24.7	22.0	26.5	62	..	4.6	..	14.2	0	4	26	0	0	0	0	0	0	0	5	16	9	0	0
	0830	"	1005.1	1003.4	-0.2	31.7	24.6	21.2	25.1	54	-2	5.3	+0.5	18.4	0	10	20	0	0	0	0	0	0	0	2	11	17	0	0
Madras . . .	1130	"	1004.2	1002.5	..	36.2	24.9	19.7	23.1	39	..	4.9	..	21.0	0	15	15	0	0	0	0	0	0	0	2	3	24	1	0
	1730	"	1001.3	999.6	..	34.2	26.0	22.0	26.9	51	..	5.9	..	16.9	0	6	24	0	1	2	8	10	5	3	1	0	0		
	2330	"	1004.1	1002.4	..	30.7	25.2	22.7	27.1	63	..	4.2	..	15.5	0	1	29	0	0	0	0	1	13	10	5	1	0		
	0830	6	1004.7	1004.0	..	32.0	25.2	21.8	25.7	55	..	4.5	..	10.9	0	0	29	0	0	0	0	0	0	3	8	15	3	1	0
	0830	4	1007.4	1007.0	+0.3	27.6	25.5	24.6	31.0	84	..	6.4	..	6.3	0	0	23	0	0	0	0	1	1	0	3	6	7	12	
Honavar . . .	1730	"	1005.6	1005.1																									

^tWind direction for 25 days.

*Observations for 26 days.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JUNE, 1958 (JYAISTHA 11—ASADHA 9, 1880 SAKA)

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JUNE, 1958 (JYAISTA 11—ASADHA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres.	Mean pressure in millibars		Mean temperature in °C.				Relative humidity %	Departure from normal	Cloud amount (Oktas)		Wind speed (Km.p.h.)	No. of observations														
			At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.			Mean amount	Departure from normal		N	NE	E	SE	S	SW	W	NW	Calm	Variable					
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Kerala—Contd. Alleppey . . .	0830	4	1009.3	1008.9	..	26.4	25.2	25.1	31.3	91	..	7.1	..	8.4	0	2	27	1	2	6	3	0	6	6	5	1	0	
	1730	..	1006.9	1006.5	..	27.6	26.0	25.2	32.7	86	..	7.0	..	18.2	0	4	26	0	3	1	3	0	1	6	16	0	0	
Punalur . . .	0830	34	1009.7	1005.9	..	25.2	24.3	23.9	29.6	93	..	5.7	..	1.0	0	0	9	1	1	1	2	1	0	1	2	21	0	
Trivandrum . . .	0230	64	1008.2	1000.9	..	24.6	23.9	23.6	29.1	94	..	6.4	..	5.2	0	0	29	10	5	0	0	0	0	0	2	12	1	0
	0530	,	1008.3	1001.0	..	24.3	23.8	23.5	29.0	95	..	7.1	..	5.4	0	0	28	9	4	1	0	0	0	0	1	13	2	0
	0830	,	1009.7	1002.5	+0.3	25.4	24.4	23.9	29.9	92	+6	6.7	+0.1	4.6	0	0	26	2	4	0	1	0	0	0	2	17	4	0
	1130	,	1009.5	1002.3	..	28.0	25.4	24.2	30.3	80	..	6.8	..	8.4	0	0	30	1	1	0	0	0	0	0	1	10	17	0
	1730	,	1007.3	1000.4	..	27.6	25.3	24.2	30.3	82	..	6.9	..	7.6	0	0	30	1	0	0	0	0	0	0	2	10	17	0
	2330	,	1009.7	1002.4	..	25.1	24.2	23.9	29.4	93	..	6.5	..	8.0	0	1	28	12	0	0	0	0	0	0	3	14	1	0
Trivandrum (Aerodrome)	0830	8	1009.8	1008.8	..	26.1	24.7	24.0	30.0	89	..	7.2	..	4.2	0	0	23	13	1	1	0	0	0	1	7	7	0	
Arabian Sea Islands Minicoy**	0530	2																										
	0830	"																										
	1130	"																										
	1730	"																										
Amini Divi** Hill Stations excluding Kashmir—	0830	4																										
Walong (R) . . .	0830																											
	1730																											
Kohima . . .	0830	1406	1492.7	858.6	..	22.2	20.1	18.9	21.5	83	..	6.5	..	..	0	0	30	15	1	2	2	0	1	3	6	0	0
	1730	"	1480.9	857.5	..	23.4	21.4	20.6	24.0	85	..	5.8	..	..	0	0	30	10	1	1	3	3	1	4	7	0	0
Ajial† . . .	0830	..	..	..	..	22.3	21.2	20.6	24.3	90	..	6.6	..	4.4	0	1	21	2	1	9	0	2	4	4	0	8	
	1730	..	..	..	..	23.6	22.0	21.2	25.1	87	..	5.9	..	5.5	0	0	26	1	1	2	0	3	5	14	0	2	
Shillong . . .	0830	1500	1449.6	845.3	+0.4	22.0	19.1	17.2	19.9	75	-3	6.3	-0.3	0.7	0	0	4	0	0	0	0	0	0	4	0	0	26	
	1730	"	1421.5	842.5	..	22.5	19.7	18.3	21.0	78	..	6.0	..	0.1	0	0	1	0	0	0	0	0	0	1	0	0	29	
Cheerapunji . . .	0830	1313	1449.9	863.7	+0.1	20.8	20.0	19.4	22.8	92	+4	3.1	-4.1	3.7	0	0	30	1	3	1	0	1	24	0	0	0	0	
	1730	"	1425.6	861.2	..	22.2	20.7	19.8	23.4	88	..	4.0	..	3.3	0	0	30	0	1	0	3	0	26	0	0	0	0	
Darjiling (Raj Bhawan) .	0830	2127	1466.9	787.9	+2.8	18.3	17.1	16.5	18.6	89	+1	6.5	-0.4	0.3	0	0	3	0	0	0	1	0	2	0	0	27	0	
	1730	"	1447.1	785.6	..	17.9	17.1	16.7	18.9	93	..	7.0	..	1.8	0	0	13	0	1	0	2	0	6	4	0	17	0	
Kalimpong . . .	0830	1209	1494.9	878.7	+5.4	21.9	19.8	19.6	21.5	85	-3	2.6	-3.6	3.0	0	0	30	0	0	0	0	0	29	0	0	0	0	
	1730	"	1484.8	877.3	..	22.1	20.3	19.4	22.6	85	..	2.7	..	3.0	0	0	30	0	0	0	0	0	29	0	0	1	0	
Katmandu . . .	0830	1337	1456.9	861.8	..	25.2	0.2	17.3	19.9	64	-9	3.6	-1.8	0.6	0	0	6	2	1	1	0	0	1	1	24	0		
	1730	"	1426.8	858.7	..	28.7	21.6	17.7	20.5	54	..	4.5	..	3.2	0	0	20	3	1	2	0	1	1	2	10	10	0	
Mukteswar (Kumaon) .	0830	2311	3122.2	769.8	+0.7	19.7	12.8	6.5	10.6	48	-20	2.4	-1.7	9.1	0	0	28	0	0	6	0	0	2	13	7	2	0	
	1730	"	3107.7	767.9	..	22.1	14.4	8.2	11.4	46	..	3.0	..	18.9	0	15	12	0	0	3	0	1	4	13	6	3	0	
Nainital . . .	0830	1953	1431.2	801.0	..	22.2	15.1	9.1	12.6	49	..	3.0	..	7.6	0	0	25	2	1	9	7	0	0	4	2	5	0	
	1730	"	1405.7	799.0	..	24.1	16.3	9.8	13.3	44	..	2.2	..	8.3	0	0	29	6	1	9	4	1	0	5	3	1	0	
Tapoban* . . .	0830	..	..	..	..	19.8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Badrinath . . .	0830	..	..	..	..	12.8	10.2	8.1	11.1	74	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lokpal . . .	0830	..	..	..	..	1.8	0.2	-1.7	5.2	91	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mussooree . . .	0830	2042	1427.5	792.5	-0.9	21.6	15.6	10.8	13.7	54	-14	2.7	-1.3	1.9	0	0	16	2	1	0	4	5	3	0	1	14	0	
	1730	"	1404.0	790.7	..	24.4	16.4	10.9	13.4	46	..	3.7	..	3.3	0	0	27	1	0	2	8	9	7	0	0	3	0	
Simla . . .	0830	2202	1432.7	778.6	+0.4	21.8	13.2	5.1	9.5	39	-16	2.3	-1.2	2.6	0	0	25	3	4	5	4	5	2	0	2	5	0	
	1730	"	1409.7	777.2	..	23.8	14.0	5.3	9.9	35	..	3.2	..	3.1	0	0	30	2	2	1	4	8	6	2	5	0	0	
Dalhousie . . .	0830	1959	1393.0	796.9	..	22.7	14.6	8.7	11.6	42	..	0.9	..	0.6	0	0	2	0	0	0	0	0	0	0	0	0	28	
	1730	"	1382.8	796.4	..	24.4	15.2	8.3	11.4	38	..	1.6	..	2.3	0	0	9	0	8	0	0	0	0	0	0	0	1	21
Dharanahala . . .	0830	1211	1479.6	876.3	..	28.0	18.4	11.6	13.6	37	..	1.9	..	2.7	0	0	26	5	1	9	3	1	1	2	4	4	0	
	1730	"	1465.4	874.4	..	31.1	19.5	11.7	14.1	34	..	3.0	..</td															

TABLE III.—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JUNE, 1958 (JYAISTA II—ASADHA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer, millimetres above mean sea level ^(b)	Mean pressure in millibars		Mean temperature in °C		Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas)	Wind speed (Km.p.h.)	No. of observations																		
			At mean sea level or height in s.p.m. of nearest standard isobatic level	At station level	Dry bulb	Wet bulb						Mean wind speed, ms per hour	62 or more	20 to 61	1 to 19	N	NE	E	SE	S	SW	W	NW	Calm	Variable					
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28			
1																														
Hill Stations excluding Kashmir—(Contd.)																														
Kodaikanal	0530	2343	3126.0	769.1	..	13.6	11.3	9.4	11.9	79	..	6.7	..	13.4	0	9	15	2	0	0	1	0	3	4	14	6	0			
	0830	..	3149.1	770.3	+1.2	15.7	12.9	10.9	13.0	74	+2	6.6	+1.4	11.6	0	5	18	1	1	0	2	0	4	4	11	7	0			
	1130	..	3154.5	770.5	..	18.4	14.5	11.9	14.0	67	..	6.7	..	12.0	0	5	21	1	0	1	3	0	4	5	12	4	0			
	1730	..	3129.3	768.9	..	15.4	13.7	12.5	14.5	83	..	7.0	..	13.7	0	7	17	2	0	0	0	0	4	5	13	6	0			
Ootacamund	..	..	2330	..	3138.9	770.2	..	13.8	12.0	10.7	12.9	82	..	6.1	..	17.9	0	11	15	1	1	0	0	0	2	3	19	4	0
Coonoor	..	..	0830	2249	1491.1	778.4	+0.8	15.0	13.1	12.2	13.6	83	-1	5.1	-1.1	9.0	0	5	12	1	1	0	0	0	7	8	0	13	0
Sikkim Lachen*	..	..	0830	1747	1487.9	825.4	..	20.4	15.9	13.2	15.2	64	0	4.1	-1.6	4.5	0	0	28	2	0	0	0	1	11	1	13	2	0
Tibet Yatung (Chumbi)	..	..	0830	..	..	..	..	13.3	12.7	12.1	14.3	94	+8	0.3	-3.9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lhasa	..	..	0830	3685	3052.8	651.4	..	17.2	10.6	5.5	9.0	48	..	4.1	..	3.2	..	0	20	0	1	0	1	0	5	2	11	10	6
Ceylon Colombo	..	..	0830	7	1010.1	1009.3	+0.3	27.8	25.3	24.0	30.4	81	-3	6.3	-0.1	11.5	0	1	28	0	0	2	1	1	17	8	0	1	0
	1730	..	1008.2	1007.4	..	28.2	25.3	23.8	30.5	78	..	6.4	..	11.9	0	1	28	0	0	0	0	0	3	18	7	1	1	0		
Trincomalee	..	..	0830	3	1007.3	1006.9	+0.5	29.0	24.8	23.1	28.3	70	-7	5.5	+1.3	23.9	0	29	1	0	0	0	0	0	39	0	0	0	0
Batticaloa	..	..	0830	3	1004.9	1004.5	..	31.9	25.2	22.2	27.3	56	..	5.8	..	22.7	0	27	3	0	0	0	0	0	29	1	0	0	0
	1730	..	1005.1	1004.9	..	31.6	25.8	22.4	28.5	61	..	5.7	..	20.9	0	8	8	0	1	1	3	2	3	5	1	0	0	0		
Ullambantota	..	..	0830	15	1009.3	1007.6	+0.9	27.6	25.4	24.3	30.6	83	-3	5.8	+1.5	23.4	0	23	7	0	0	0	0	0	29	1	0	0	0
	1730	..	1006.9	1005.2	..	27.8	24.9	23.8	29.7	78	..	6.2	..	27.4	0	27	3	0	0	0	0	0	0	29	1	0	0	0		
Mannar	..	..	0830	4	1008.0	1007.6	..	29.4	25.8	24.6	30.6	75	..	6.4	..	18.2	0	8	22	0	0	0	0	0	30	0	0	0	0
	1730	..	1005.5	1005.1	..	29.5	26.2	24.8	31.7	76	..	7.1	..	20.0	0	19	11	0	0	0	0	0	3	27	0	0	0	0		
Hydrometeorological Observatories Damodar Catchment																														
Bokaro	..	..	0830	239	999.3	973.1	..	32.9	25.0	20.7	25.2	53	..	3.8	..	7.7	0	1	28	0	0	3	9	4	2	5	2	1	4
	1730	..	995.3	995.4	..	34.8	23.6	15.5	19.9	43	..	5.7	..	11.7	0	3	27	1	0	9	8	0	4	2	12	0	0			
Hazaribagh	..	..	0830	615	998.2	932.7	..	32.0	22.2	15.0	18.7	44	..	2.4	..	8.1	0	0	27	0	0	1	2	2	11	7	4	3	0
	1730	..	994.4	994.6	..	33.9	22.6	16.7	18.2	41	..	4.4	..	16.9	0	9	21	1	1	3	3	1	7	3	11	0	0			
Tilaiya	0830	33.4	23.8	17.5	21.6	45	..	2.7	..	9.4	0	4	23	0	0	0	7	3	1	0	6	5	3	5
Ramgarh**	0830	36.3	23.2	14.6	17.7	35	..	4.8	..	13.5	0	3	27	3	1	5	3	1	1	0	5	7	0	5
Panchet Hills	..	..	0830	..	..	..	..	32.9	25.3	20.7	26.1	54	..	1.9	..	5.6	0	0	27	2	7	2	2	1	5	3	5	2	0
	1730	..	..	..	..	..	..	35.0	24.6	18.1	22.0	47	..	5.0	..	7.6	0	2	25	1	5	6	4	0	2	1	8	2	0
Durgapur	..	..	0830	..	..	..	..	34.1	26.5	22.9	28.7	55	..	3.1	..	5.7	0	1	29	0	1	10	4	3	12	0	0	0	
	1730	..	..	..	..	..	..	34.3	24.8	19.0	23.6	48	..	5.9	..	6.9	0	2	28	1	5	10	1	1	6	5	1	0	0
Mahanadi Catchment																														
Baramul	..	..	0830	64	1000.0	992.9	..	31.3	26.7	24.7	31.2	69	..	4.7	..	3.5	0	0	15	2	0	0	1	1	9	1	1	15	0
	1730	..	996.8	989.8	..	34.8	27.8	24.7	31.5	58	..	6.7	..	4.3	0	0	14	0	3	2	1	0	8	0	0	16	0			
Irrakud	..	..	0830	159	1000.1	982.7	..	32.9	26.8	24.1	30.2	63	..	4.7	..	5.8	0	0	27	0	1	4	2	3	13	3	1	3	0
	1730	..	995.6	978.5	..	37.6	28.0	23.7	30.2	50	..	5.4	..	5.5	0	1	20	1	2	4	1	3	5	3	2	9	0			
Khijrawant†	..	..	0830	..	..	..	..	32.7	23.6	18.4	22.4	48	..	3.4	..	14.1	..	3	15	1	0	2	0	7	12	5	1	2	0
	1730	..	..	..	..	..	..	35.3	24.4	18.0	21.9	42	..	5.2	..	9.0	..	2	18	1	1	2	6	7	6	3	3	0	
Sonepur	..	..	0830	..	..	..	..	34.3	25.8	21.7	26.2	51	..	..	..	9.5	0	0	25	0	1	5	1	1	7	9	1	5	0
Ginabahar	..	..	0830	..	..	..	..	31.9	23.3	17.9	21.6	50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhimkund	..	..	0830	..	..	..	..	31.6	26.1	23.4	29.2	64	..																

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JUNE, 1958 (JYAISTA II—ASADHA 9, 1880 SAKA)

Division and station	Hour of observation I. S. T.	Height of barometer column above mean sea level in metres.	Mean pressure in millibars			Mean temperature in °C			At mean sea level or height in g.p.m. of nearest standard isobaric level.	At station level	Departure from normal	Dry bulb	Wet bulb	Dew point	Variour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas.)	Mean wind speed, Km. per hour	No. of observations										
			1	2	3	4	5	6											16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories—(Contd.)																														
Gandak Catchment																														
Gorkha . . .	0830	..	..	..	..	..	..	..	24.5	20.3	18.3	20.8	67	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pokhara . . .	1730	..	..	..	..	..	..	..	28.6	21.5	17.7	20.5	52	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Nawakot . . .	0830	..	..	..	..	..	..	..	26.3	22.1	20.2	23.6	68	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Jomosom . . .	1730	..	..	..	..	..	..	..	26.5	22.6	20.8	24.6	71	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Timure . . .	0830	..	..	..	..	..	..	..	26.7	21.8	19.4	22.7	64	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cogra Catchment (Trans-Himalayan Region)																														
Dajilekh . . .	0830	..	..	..	..	..	..	..	24.5	17.6	13.7	15.6	42	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dandeldhura . . .	1730	..	..	..	..	..	..	..	25.9	18.6	14.1	16.1	48	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sallyana (R) . . .	0830	..	..	..	..	..	..	..	28.8	18.8	12.6	14.4	37	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Butwal . . .	1730	..	..	..	..	..	..	..	21.9	17.1	14.5	16.4	62	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bagmati Catchment																														
Katmandu . . .	0830	1333	1439.0	861.4	..	..	23.9	19.4	16.5	19.3	66	..	3.6	..	0.6	0	0	6	2	1	1	0	0	1	0	1	24	0	0	
Kosi Catchment																														
Chautara . . .	0830	..	..	..	..	..	27.5	20.9	16.9	20.0	56	..	4.5	..	3.2	c	0	20	3	1	2	0	1	1	2	10	10	0	0	
Okhaldunga . . .	1730	..	..	..	..	..	22.5	18.9	16.9	19.5	72	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Barhkshetra . . .	0830	..	..	..	..	..	25.6	19.4	18.3	20.9	64	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Angbung . . .	0830	..	..	..	..	..	21.1	18.5	17.1	19.6	79	..	5.2	..	1.0	0	0	8	0	0	1	0	2	0	4	1	22	0	0	
Taplejung . . .	0830	..	..	..	..	..	23.5	19.5	17.3	20.0	71	..	5.4	..	2.4	0	0	19	0	0	0	0	4	6	8	1	11	0	0	
Taplethok . . .	1730	..	..	..	..	..	20.8	18.5	17.2	19.7	81	..	6.2	..	3.2	0	0	20	0	0	0	0	0	1	3	12	4	10	0	
Wallungchung Gola . . .	0830	..	..	..	..	..	31.6	26.4	24.1	30.7	67	..	5.3	..	9.7	0	2	25	0	0	1	0	0	11	13	2	3	0	0	
Bhojpur . . .	0830	..	..	..	..	..	30.6	26.0	23.9	30.3	69	..	5.5	..	4.6	0	0	22	1	2	2	3	1	8	5	0	8	0	0	
Geyzing . . .	0830	..	..	..	..	..	22.1	20.9	20.4	24.8	90	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tista Catchment																														
Gangtok . . .	0830	1812	1450.5	815.3	..	..	18.5	17.5	17.0	19.3	91	..	5.9	..	2.8	0	0	19	3	2	1	2	3	1	2	5	11	0		
	1130	..	1441.6	814.8	..	..	20.1	19.1	18.2	20.8	85	..	5.6	..	4.0	0	0	28	0	1	0	1	10	9	3	4	2	0	0	
	1730	..	1420.8	812.7	..	..	19.9	18.6	17.9	19.4	89	..	6.1	..	3.0	0	0	21	0	0	1	11	8	1	0	0	9	0	0	

†Observation for 28 days

(R) Register not received.

MONTHLY MEANS OF UPPER WINDS
JUNE, 1958 (Jyaistha 11—Asadha 9, 1880 Saka)

During the month, observations of velocity and direction of upper winds were made at 55 stations in India. Out of these, at 43 stations all the observations, were taken by means of pilot balloons and at 12 stations some observations were made by means of pilot balloons while the other observations by the radiowind method. Particulars of these stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the table overleaf. All radiowind ascents have been indicated by means of an asterisk (*) against the scheduled hours.

Data from ascents made at the scheduled time or within two hours on either side of the scheduled times of regular observations have been used for averaging.

Data up to 9.0 km. a.m.s.l. are given under Table IV and data above 9.0 km. a.m.s.l. under Table V.

In Tables IV and V :

n—represents the number of observations,

V—represents the mean wind speed in knots irrespective of direction,

v—represents the resultant mean velocity in knots,

D—represents the direction of the resultant mean wind in degrees East of North.

Mean and resultant winds are given in this publication for the following heights :

Surface, 0.15 km. a.g., 0.3, 0.6, 0.9, 1.5, 2.1, 3.0, 3.6, 4.5, 5.4, 6.0, 7.2, 9.0, 10.5, 12.0, 14.1, 16.2, 18.0, 21.0, 24.0, 27.0, 30.0, 33.0 and 36.0 km. a.m.s.l. Of these the levels 1.5, 3.0, 5.4, 7.2, 9.0, 12.0, 14.1, and 16.2 km. a.m.s.l. are considered as the best approximations to the standard pressure levels 850, 700, 500, 400, 300, 200, 150 and 100 mb. respectively.

PARTICULARS OF PILOT BALLOON AND RAWIN STATIONS IN INDIA

Station	Lat. N	Long. E	Height of Anemometer head a.m.s.l. in metres	Date of opening	Approximate times of flight (IST)			
					0530	1130	1730	2330
Agartala	23°53'	91°15'	17	28th November, 1951	.	0530	1130	1730
Ahmedabad	23°04'	72°38'	61	19th May, 1928	.	0530	1730	2330
Amausi	26°45'	80°53'	132	20th November, 1950	.	0530	1730	2330
Ambala	30°23'	76°46'	279	1st April, 1941	.	0530	1730	2330
Amritsar	31°38'	74°52'	243	21st June, 1957	.	0530*	1730*	
Anantapur	14°41'	77°37'	364	12th February, 1946	.	0530	1730	2330
Asansol	23°41'	86°59'	135	29th May, 1942	.	0530	1130	1730
Baghdogra	26°38'	88°19'	140	7th June, 1953	.	0530	1130	1730
Bairagarh	23°17'	77°21'	532	26th February, 1943	.	0530	1730	2330
Bamrauli	25°27'	81°44'	103	28th February, 1930	.	0530*	1130	1730*
Bangalore	12°58'	77°35'	936	19th May, 1915	.	0530	1730	2330
Bareilly	28°22'	79°24'	180	12th January, 1943	.	0530	1730	
Begumpet	17°27'	78°28'	543	1st September, 1929	.	0530	1730	2330
Bhagalpur	25°14'	86°57'	61	29th May, 1950	.	0530	1130	1730
Bhubaneshwar	20°15'	85°50'	55	5th December, 1942	.	0530	1130	1730
Bhuj	23°15'	69°48'	111	14th September, 1937	.	0530	1730	2330
Bikaner	28°00'	73°18'	229	18th October, 1943	.	0530	1730	2330
Chikalthana	19°51'	75°24'	583	7th October, 1951	.	0530	1730	2330
Cochin†	09°56'	76°14'	3	16th March, 1942	.	0530	1730	2330
Darjeeling	27°03'	88°16'	2115	21st May, 1956	.	0530	1730	
Dum Dum	22°39'	88°27'	13	14th May, 1921	.	0530*	1130	1730*
Gadag	15°25'	75°38'	650	3rd May, 1943	.	0530	1730	2330
Gannavaram	16°32'	80°48'	34	8th April, 1942	.	0530	1730	2330
Gauhati	26°05'	91°43'	51	12th March, 1955	.	0530*	1130	1730*
Gaya	24°45'	84°57'	119	19th March, 1937	.	0530	1130	1730
Gopalpur	19°16'	84°53'	24	15th February, 1943	.	0530	1730	2330
Gorakhpur	26°45'	83°22'	83	5th January, 1943	.	0530	1730	
Gwalior	26°14'	78°15'	203	7th May, 1938	.	0530	1730	2330
Imphal	24°51'	93°58'	805	8th March, 1952	.	0530	1130	1730
Jabalpur	23°10'	79°57'	402	30th July, 1928	.	0530	1730	2330
Jagdalpur	19°05'	82°02'	562	25th March, 1948	.	0530	1730	2330
Jaipur	26°49'	75°48'	404	6th June, 1953	.	0530	1730	
Jamshedpur	22°49'	86°11'	147	23rd July, 1942	.	0530	1130	1730
Jharsuguda	21°55'	84°05'	240	1st May, 1944	.	0530	1730	2330
Jodhpur	26°18'	73°01'	229	15th October, 1934	.	0530*	1130	1730*
Madras	13°00'	80°11'	29	8th April, 1926	.	0530*	1130	1730*
Mangalore	12°52'	74°51'	40	4th June, 1928	.	0530	1730	2330
Minicoy	08°18'	73°00'	16	14th April, 1941	.	0530	1730	2330
Mohanbari	27°29'	95°01'	112	1st June, 1948	.	0530	1130	1730
Mussoorie	30°27'	78°05'	2059	3rd November, 1955	.	0830	1730	
Nagpur	21°06'	79°03'	316	23rd April, 1943	.	0530*	1130	1730*
Nanpara	27°50'	81°30'	142	23rd April, 1957	.	0530	1730	
New Delhi	28°35'	77°12'	227	20th October, 1936	.	0530*	1130	1730*
Poona	18°32'	73°51'	593	5th January, 1925	.	0530	1730	2330
Port Blair	11°40'	92°43'	93	29th October, 1945	.	0530*	1130	1730*
Raipur	21°14'	81°39'	308	15th July, 1944	.	0530	1730	2330
Raxaul	26°59'	84°51'	83	28th October, 1957	.	0530	1730	
Santa Cruz	19°07'	72°51'	14	14th May, 1933	.	0530*	1130	1730*
Tezpur	26°37'	92°47'	79	12th August, 1932	.	0530	1130	1730
Tiruchirapalli	10°46'	78°43'	96	22nd June, 1936	.	0530	1730	2330
Trivandrum	08°29'	76°57'	73	8th December, 1928	.	0530*	1130	1730*
Udaipur	24°35'	73°42'	587	24th June, 1947	.	0530	1730	2330
Vengurla	15°52'	73°38'	8	22nd November, 1941	.	0530	1730	2330
Veraval	20°54'	70°22'	17	13th October, 1941	.	0530*	1130	1730*
Visakhapatnam	17°43'	83°14'	10	24th September, 1928	.	0530	1730	2330

*Radio wind ascents.

†Naval Meteorological Office.

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9·0 km. above mean sea level

June 1958 (Jyaistha II—Asadha 9, 1880 Saka)

Station	AGARTALA												AHMEDABAD															
	0530				1130				1730				2330				0530				1730							
Time in I. S. T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D				
	Ht. in Km.																											
Surface . .	30	4·5	3·6	144	14	4·3	3·5	165	30	3·8	2·7	159	30	4·1	3·9	142	30	4·6	3·3	231	30	9·8	7·1	226				
0·15 a. g. . .	29	13·2	12·2	153	14	8·1	4·7	175	29	9·3	8·2	170	30	14·5	13·9	172	30	11·3	8·8	232	30	13·8	10·7	217				
0·3 a.m.s.l. . .	29	20·1	15·4	172	14	8·4	6·4	180	29	10·6	9·6	175	30	16·6	16·0	182	30	12·5	10·0	235	30	13·4	10·3	226				
0·6 . . . ,	29	16·7	15·4	183	14	8·6	6·9	177	29	11·4	10·6	179	29	17·4	16·9	188	30	13·9	11·0	246	30	13·6	10·5	233				
0·9 . . . ,	28	16·2	15·1	192	14	8·8	6·4	182	28	10·9	9·9	187	27	14·1	13·3	187	28	14·2	10·6	257	30	14·0	11·2	238				
1·5 . . . ,	24	9·0	6·5	200	7	9·6	6·6	192	26	8·8	6·3	204	27	9·0	7·4	189	23	12·2	6·8	249	29	14·2	11·1	250				
2·1 . . . ,	21	9·6	5·0	251	4	10·2	6·6	240	26	10·7	4·0	270	25	11·3	5·0	235	21	12·5	5·7	259	26	14·0	9·9	260				
3·0 . . . ,	17	14·4	10·3	299					22	15·1	8·2	309	24	15·1	9·2	289	20	11·1	3·9	294	25	11·8	5·0	294				
3·6 . . . ,	16	15·4	12·4	307					18	14·3	9·0	309	16	11·1	4·9	279	15	10·1	2·9	319	23	11·5	5·6	305				
4·5 . . . ,	15	13·2	9·9	303					14	9·5	4·4	292	12	8·4	3·2	218	10	12·7	6·6	336	20	14·2	7·2	352				
5·4 . . . ,	10	7·2	4·1	226					9	11·5	7·9	288	10	10·7	5·3	222	05	10·6	2·4	151	17	15·4	9·0	345				
6·0 . . . ,	8	8·0	7·0	209					8	11·3	7·3	278	9	10·3	5·8	225	04	10·2	3·5	062	17	15·6	9·1	351				
7·2 . . . ,	8	9·1	7·6	205					5	12·2	10·6	233	2	12·0	6·0	183	01	4·0	4·0	180	15	16·6	10·6	328				
9·0 . . . ,	6	14·7	9·8	207					3	11·6	10·4	247	1	13·0	13·0	195					7	18·9	8·4	256				
Station	AHMEDABAD				AMAUSI												AMBALA											
Time in I. S. T.	2330				0530				1730				2330				0530				1730							
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D				
Surface . .	30	7·7	5·8	238	30	5·1	1·5	331	30	7·4	5·1	302	30	3·7	0·9	224	30	5·4	1·3	091	30	6·8	4·3	296				
0·15 a. g. . .	30	13·4	10·6	221	29	14·5	5·8	330	29	11·1	7·7	305	30	7·5	2·2	285	30	14·0	2·7	347	30	13·3	8·9	293				
0·3 a.m.s.l. . .	30	16·3	12·6	228	29	15·7	5·8	336	29	11·4	9·6	318	30	15·3	3·5	294	30	7·8	0·7	013	30	9·7	6·0	290				
0·6 . . . ,	30	18·7	15·8	239	29	16·2	6·9	315	29	11·5	7·6	300	29	16·2	4·3	271	30	17·2	4·0	316	30	14·6	9·6	287				
0·9 . . . ,	30	16·0	13·6	246	26	15·7	10·2	326	29	12·4	8·7	300	28	14·1	5·8	275	30	16·9	5·6	304	30	15·3	9·5	286				
1·5 . . . ,	29	12·0	8·8	265	25	14·3	12·7	324	24	11·9	7·5	298	25	12·1	7·6	285	28	12·3	6·7	322	30	15·8	11·1	293				
2·1 . . . ,	27	11·3	5·8	277	17	14·3	12·0	324	20	12·5	9·6	298	18	12·7	9·9	285	26	12·3	9·3	319	27	14·4	10·5	299				
3·0 . . . ,	24	11·5	3·6	327	8	14·9	13·1	300	15	13·5	9·4	296	4	8·0	7·9	266	18	14·4	12·4	310	24	16·1	12·3	311				
3·6 . . . ,	1	4·0	4·0	325	2	12·0	3·1	307	13	12·2	8·2	309					16	18·1	14·6	310	23	17·1	12·7	321				
4·5 . . . ,					1	12·0	12·0	310	9	12·5	5·9	293					13	16·6	15·1	314	21	19·1	15·3	323				
5·4 . . . ,									5	11·0	6·8	302					9	17·6	16·8	327	21	20·2	16·1	317				
6·0 . . . ,									3	18·0	12·5	321					7	15·0	14·3	317	20	21·0	17·9	307				
7·2 . . . ,									1	13·0	13·0	280					6	17·3	16·6	294	12	26·0	23·6	301				
9·0 . . . ,									1	7·0	7·0	230					5	29·2	29·0	278	9	34·8	33·5	273				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

June 1958 (Jyaistha 11—Asadha 9, 1958 Saka)

Station	AMBALA				AMRITSAR				ANANTAPUR							
	Time in I. S. T.		2330		0530*		1130*		0530		1730		2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	6.6	2.4	276	30	5.5	1.8	120	30	5.9	1.4	035	30	9.9	9.3	257
0.15 a.g. . .	30	18.0	6.4	289	27	6.2	2.0	120	28	5.6	0.8	332	30	17.1	16.6	235
0.3 a.m.s.l. . .	30	9.2	3.2	276	27	3.6	1.2	137	28	6.4	0.3	172	29	16.9	15.8	260
0.6 „ . .	30	17.9	7.4	292	26	11.7	0.6	243	28	9.7	4.4	286	30	18.4	17.8	254
0.9 „ . .	30	15.3	7.0	310	26	11.0	2.6	288	28	8.5	4.7	287	30	21.8	21.0	262
1.5 „ . .	30	13.1	8.0	319	26	10.0	4.4	302	28	9.7	5.6	296	30	22.9	21.6	273
2.1 „ . .	27	13.0	10.1	315	25	10.4	6.4	305	28	13.6	6.9	312	30	23.1	16.5	285
3.0 „ . .	22	11.5	7.4	318	25	12.8	8.2	343	28	12.0	8.3	316	28	16.5	9.9	290
3.6 „ . .	7	10.4	6.6	333	26	16.3	10.8	330	28	15.0	11.4	317	26	15.5	5.5	296
4.5 „ . .	4	12.3	10.3	331	25	16.9	12.9	335	28	18.2	13.6	313	18	11.6	3.7	065
5.4 „ . .	2	13.0	12.7	002	26	18.3	15.0	312	27	19.2	17.4	303	12	9.6	2.4	090
6.0 „ . .	2	9.5	9.3	353	26	19.7	17.6	313	27	19.7	17.8	293	11	9.5	1.2	083
7.2 „ . .					26	25.0	21.0	298	27	26.5	23.5	287	7	6.1	3.5	335
9.0 „ . .					21	34.4	29.0	282	23	35.1	31.8	283	1	13.0	13.0	090

Station	ASANSOL								BAGHDOGRA							
	Time in I. S. T.		0530		1130		1730		2330		0530		1130		2330	
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	3.9	2.7	142	15	3.1	2.0	134	30	4.8	1.8	125	30	5.1	3.9	153
0.15 a.g. . .	29	8.4	5.6	158	15	7.4	4.2	151	29	10.9	4.2	116	30	13.6	11.6	168
0.3 a.m.s.l. . .	29	8.7	5.8	165	15	7.3	4.1	152	29	10.9	4.4	118	30	14.0	11.4	169
0.6 „ . .	28	13.7	6.7	217	15	7.0	2.0	180	29	11.4	5.0	129	30	15.6	13.5	180
0.9 „ . .	28	21.4	5.6	241	15	7.2	3.4	179	29	11.0	4.3	140	30	13.9	10.5	183
1.5 „ . .	25	9.9	5.8	267	15	7.8	2.5	294	28	11.1	0.6	214	26	10.5	3.3	221
2.1 „ . .	24	9.9	6.4	306	3	9.7	5.1	322	26	9.5	3.6	310	21	9.9	3.9	285
3.0 „ . .	14	12.5	10.6	301	1	12.0	12.0	330	21	15.0	10.3	312	7	10.3	4.9	342
3.6 „ . .	7	15.0	14.5	302					14	18.9	17.3	302	3	11.3	1.5	340
4.5 „ . .	4	13.0	12.9	306					10	20.3	18.6	299				5 13.8 10.8 264
5.4 „ . .	3	18.9	7.6	286					4	13.0	10.0	286				2 14.0 11.6 240
6.0 „ . .	2	11.0	4.1	261					4	12.0	10.9	278				2 14.0 19.0 201
7.2 „ . .									2	6.5	4.8	176				2 19.5 19.5 221
9.0 „ . .									1	7.0	7.0	135				

TABLE JV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9·0 Km. above mean sea level

June 1958 (Jyaistha 11—Asadha 9, 1880 Saka)

Station	BAGHDOGRA								BAIRAGARH								BAMRAULI								
	1730				2330				0530				1730				2330				0530*				
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Surface . .	30	4·5	3·6	099	30	4·6	4·1	057	30	8·1	6·6	266	30	10·9	5·7	275	30	7·6	4·4	255	30	4·6	1·1	248	
0·15 a.g. . .	30	6·4	5·5	096	24	10·4	9·9	075	30	17·2	14·9	270	23	13·9	9·4	265	30	16·1	8·7	266	29	12·6	5·4	277	
0·3 a.m.s.l. . .	30	6·5	5·8	095	24	10·5	9·9	077	..	..	..	..	..	..	..	..	..	..	..	..	29	12·8	5·5	278
0·6 . , .	30	6·9	6·4	092	24	10·9	10·4	090	30	14·6	12·6	270	28	13·0	8·4	266	30	15·0	7·8	256	27	13·7	9·0	285	
0·9 . , .	30	7·2	6·3	088	23	10·3	9·7	102	30	22·0	18·3	289	28	14·0	10·4	280	30	18·0	11·9	276	27	12·4	9·1	292	
1·5 . , .	28	7·0	2·4	130	22	6·8	3·5	130	28	19·1	16·4	299	27	13·2	10·5	290	30	14·8	9·7	288	28	11·2	10·7	299	
2·1 . , .	24	11·1	5·4	247	17	10·6	3·2	241	27	10·4	8·1	313	25	13·2	9·7	297	27	12·1	8·5	304	28	11·5	9·3	303	
3·0 . , .	21	13·0	10·2	275	9	14·0	8·7	264	22	7·0	2·9	355	18	11·7	9·8	316	16	9·9	5·2	344	27	13·2	10·6	302	
3·6 . , .	19	11·9	8·8	275	4	11·3	8·1	256	16	8·1	3·3	355	14	12·1	9·2	309	7	7·9	3·9	358	25	13·4	11·0	295	
4·5 . , .	16	14·4	11·9	286					14	9·2	3·3	316	11	14·0	11·9	311	2	6·5	3·3	218	25	15·0	9·7	282	
5·4 . , .	12	18·3	15·8	278					5	8·6	2·5	230	8	13·1	11·5	288					24	15·3	11·4	274	
6·0 . , .	8	23·3	22·0	279					4	11·3	2·9	157	7	16·1	14·3	299					24	14·1	9·7	261	
7·2 . , .	4	25·8	24·9	261					2	7·5	5·4	012	5	18·4	18·1	305					21	13·8	9·7	258	
9·0 . , .									1	12·0	12·0	025	3	26·0	25·5	291					20	18·6	12·0	245	
Station	BAMRUALI								BANGALORE																
Time in I.S.T.	1130				1730*				2330				0530				1730				2330				
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Surface . .	30	6·8	3·5	313	30	6·9	3·6	310	30	3·1	0·7	200	30	9·9	9·3	256	30	11·3	10·1	259	30	11·7	9·5	247	
0·15 a.g. . .	30	12·1	6·7	313	30	10·2	6·2	311	30	13·7	2·1	346	28	18·1	17·6	253	30	17·1	16·1	257	29	17·2	16·4	245	
0·3 a.m.s.l. . .	30	12·0	6·8	316	30	10·7	6·4	307	30	14·2	2·6	325													
0·6 . , .	30	11·5	6·7	320	30	10·4	6·1	307	30	16·3	3·1	300													
0·9 . , .	30	11·5	7·3	316	30	10·3	6·6	303	30	15·1	3·6	297													
1·5 . , .	25	16·3	10·2	304	30	11·2	7·9	292	27	20·4	8·0	297	26	26·7	25·2	265	30	17·4	16·7	264	28	25·9	24·6	259	
2·1 . , .	20	13·9	12·6	298	29	11·1	8·6	296	20	12·5	9·4	296	21	18·9	14·0	287	26	18·6	16·7	272	26	20·4	17·1	278	
3·0 . , .	11	14·9	12·6	295	29	12·8	10·7	292	10	12·4	10·8	299	18	15·4	5·7	314	19	14·9	9·4	314	22	14·6	7·3	297	
3·6 . , .	6	16·8	14·2	287	28	13·5	10·7	292					14	11·7	2·9	342	14	11·1	4·1	351	14	12·1	2·1	340	
4·5 . , .	1	27·0	27·0	270	27	15·7	13·3	291					7	8·9	7·7	31	12	9·4	3·9	055	13	10·2	1·0	118	
5·4 . , .	1	30·0	30·0	290	25	15·4	12·1	286					2	7·0	5·7	127	11	8·7	3·7	039	7	7·4	3·1	57	
6·0 . , .	1	30·0	30·0	295	24	14·2	11·0	280					2	9·0	3·9	331	10	9·1	6·5	021	6	8·7	5·9	53	
7·2 . , .					23	15·4	12·2	275					2	11·0	6·4	14	8	7·9	2·9	010	3	9·3	8·8	32	
9·0 . , .					21	16·5	11·5	244					1	23·0	10·0	230	3	8·3	3·1	056					

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

June 1958 (Jyaistha 11—Asadha 9, 1880 Saka)

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9·0 Km. above mean sea level

June 1958 (Jyaistha 11—Asadha 9, 1880 Saka)

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

June 1958 (Jyaistha 11—Asadha 9, 1880 Saka)

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

June 1958 (Jyaistha 11—Asadha 9, 1880 Saka)

Station	GAUHATI												GAYA											
	0530*				1130				1730*				2330				0530				1130			
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
	Ht. in Km.																							
Surface . . .	30	1·9	0·3	267	30	3·4	0·6	330	30	1·3	0·5	045	30	2·6	1·4	217	30	2·2	1·7	172	15	4·3	3·5	295
0·15 a. g. . .	30	6·5	0·1	170	27	6·3	1·8	333	30	5·4	1·6	340	28	4·5	1·5	191	30	11·3	5·6	195	15	8·1	7·8	285
0·3 a. m. s.l. . .	30	6·5	0·3	236	27	5·5	1·5	348	30	5·1	1·4	002	28	4·2	0·6	286	30	11·4	6·4	202	15	7·9	7·2	285
0·6 . , .	30	7·6	0·8	284	24	5·6	0·3	253	30	5·6	1·3	274	28	5·0	1·1	330	30	12·8	7·5	235	15	9·0	8·4	292
0·9 . , .	30	8·3	2·5	244	24	7·3	3·4	237	30	6·9	4·5	255	28	6·7	3·1	243	30	13·2	8·1	267	14	7·8	6·4	298
1·5 . , .	30	10·3	6·9	238	22	10·2	7·9	245	30	10·9	10·0	246	25	10·0	9·4	247	29	12·5	8·9	294	13	9·7	8·8	308
2·1 . , .	30	12·3	10·4	254	18	11·0	9·0	252	30	12·2	10·7	249	23	10·8	9·9	254	29	12·8	10·2	303	7	10·9	10·0	298
3·0 . , .	30	14·1	12·1	262	14	13·8	12·2	261	30	12·9	10·9	258	17	12·3	11·2	255	23	15·7	13·2	305	1	29·0	29·0	270
3·6 . , .	29	13·7	11·2	263	14	15·2	12·5	270	30	11·8	9·5	265	5	9·4	8·8	250	9	15·3	12·1	306				
4·5 . , .	29	14·2	12·0	255	6	16·7	16·2	273	30	12·3	9·9	268	2	9·0	9·0	237	5	13·0	7·7	267				
5·4 . , .	28	14·3	12·9	257	3	22·7	22·5	270	30	14·3	12·3	268					3	11·7	4·1	190				
6·0 . , .	28	14·0	12·2	250	3	27·0	26·8	262	30	16·3	14·0	260												
7·2 . , .	27	15·0	13·0	235	1	27·0	27·0	230	30	17·9	13·3	255												
9·0 . , .	20	16·5	12·7	232					21	17·4	14·6	249												
Station	GAYA												GOPALPUR					GORAKHPUR						
Time in I.S.T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . . .	30	7·0	2·4	339	30	5·0	3·5	117	30	4·7	4·4	205	30	9·8	8·6	205	30	6·3	5·4	208	30	4·7	3·8	066
0·15 a. g. . .	30	12·5	5·0	331	30	12·7	6·4	100	30	13·6	9·9	212	30	16·5	14·4	200	29	13·2	9·6	221	29	13·7	10·9	079
0·3 a. m. s.l. . .	30	12·7	4·9	330	30	13·3	5·0	100	30	12·9	10·2	249	30	15·8	11·6	212	29	13·1	9·4	220	29	15·7	12·3	088
0·6 . , .	30	12·7	5·2	344	30	14·6	4·0	127	30	11·2	8·9	237	30	11·1	5·9	228	29	10·7	6·9	233	28	14·3	5·7	117
0·9 . , .	30	13·2	5·9	336	30	15·0	4·5	159	30	11·1	9·4	253	30	9·9	4·4	272	29	10·2	6·1	242	28	13·5	1·7	235
1·5 . , .	29	11·5	6·3	303	30	15·1	3·4	217	30	12·8	10·7	279	30	9·7	6·3	313	29	8·0	4·3	256	28	14·8	10·2	286
2·1 . , .	23	12·5	8·9	289	24	13·0	7·1	285	29	11·5	9·6	296	30	10·0	7·1	321	28	7·5	3·0	293	27	15·7	12·9	290
3·0 . , .	19	15·3	13·1	289	12	16·7	14·4	283	27	11·8	7·4	336	28	10·9	6·2	331	25	8·6	4·5	334	22	16·4	13·4	299
3·6 . , .	10	12·5	10·1	269	5	18·2	13·4	280	21	12·8	7·9	357	26	11·2	5·2	335	14	8·0	4·3	337	12	17·3	13·9	305
4·5 . , .	1	11·0	11·0	320	1	22·0	22·0	320	18	11·3	6·6	004	17	11·1	6·4	012	2	16·5	16·4	316	8	12·6	8·5	311
5·4 . , .	1	15·0	15·0	290					12	12·2	5·0	026	10	7·9	2·4	035					7	9·0	4·4	288
6·0 . , .	1	10·0	10·0	280					18	4·9	2·5	071	7	10·0	3·3	056					6	8·8	4·6	265
7·2 . , .									2	13·0	13·0	103	3	5·0	3·7	123					6	14·7	7·3	248
9·0 . , .													2	16·5	14·9	112					3	10·3	2·0	084

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9·0 Km. above mean sea level

June 1958 (Jyaistha 11—Asadha 9, 1880 Saka)

Station	GORAKHAPUR				GWALIOR								IMPHAL											
Time in I. S. T.	1730				0530				1730				2330				0530				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	4·3	0·9	332	30	6·7	5·1	270	30	6·3	2·5	335	30	5·8	3·4	251	30	0·9	0·4	206	15	6·4	5·7	222
0·15 a. g. .	30	11·0	3·5	325	30	15·5	11·5	276	30	10·9	5·5	334	29	12·8	5·1	252	25	2·5	1·2	161	14	9·0	8·1	222
0·3 a. m. s. l. .	30	12·1	3·8	323	30	12·9	9·5	271	30	10·3	5·0	338	29	11·0	4·9	244								
0·6 . , .	30	13·0	2·3	320	30	18·6	15·1	290	30	11·4	5·3	323	29	15·2	5·9	269								
0·9 . , .	30	13·0	3·9	304	29	17·8	14·7	297	30	11·5	6·1	321	29	14·2	5·9	275	25	2·3	1·3	157	14	7·6	6·9	218
1·5 . , .	30	14·1	7·6	280	28	13·4	11·4	302	29	11·0	8·4	309	29	13·1	7·0	294	24	5·2	2·7	255	14	5·4	3·2	223
2·1 . , .	29	14·9	10·3	275	22	12·0	9·6	300	27	13·7	12·4	305	25	11·1	7·1	297	15	8·7	5·0	313	12	4·9	3·2	335
3·0 . , .	27	17·7	14·8	285	12	10·8	7·9	347	23	14·6	12·8	310	19	12·1	8·6	328	12	11·7	6·7	291	6	10·8	10·1	325
3·6 . , .	26	18·3	15·4	290	7	15·0	9·1	351	19	16·5	14·4	302	9	12·4	7·9	346	10	9·1	6·9	275	4	7·7	7·1	301
4·5 . , .	21	19·2	15·6	298					8	19·3	16·7	293	1	5·0	5·0	025	10	7·7	5·5	254				
5·4 . , .	20	19·3	16·6	300					3	14·0	11·6	308					8	13·5	7·6	258				
6·0 . , .	18	15·9	14·6	302					2	9·5	7·6	321					6	13·2	9·9	227				
7·2 . , .	15	16·9	15·7	286													4	12·3	12·1	212				
9·0 . , .	12	19·3	16·5	270													2	11·5	11·5	218				

TABLE IV--MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level.

June 1958 (Jyaistha 11—Asadha 9, 1880 Saka)

Station	JAGDALPUR				JAIPUR				JAMSHEDPUR							
Time in I.S.T.	1730		2330		0530		1730		0530		1130					
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	3.9	2.2	222	30	2.0	1.4	204	30	3.1	0.5	290	30	5.3	3.0	290
0.15 a.g. . .	27	10.8	4.9	238	28	12.8	10.5	212	30	13.0	7.7	253	29	10.6	6.8	291
0.3 a.m.s. 1. . .													29	6.1	3.5	210
0.6 . . .	27	7.7	3.5	238	28	8.3	6.6	206	30	15.7	10.3	257	29	11.1	7.1	294
0.9 . . .	27	11.8	7.0	253	28	13.9	11.2	227	30	19.5	10.2	272	29	11.3	3.6	304
1.5 . . .	25	12.0	9.5	281	27	13.6	11.9	266	30	16.0	11.8	282	29	10.7	7.2	291
2.1 . . .	21	11.4	10.0	296	22	13.0	10.9	279	22	11.7	8.0	302	25	11.4	9.5	300
3.0 . . .	15	13.8	11.1	300	20	11.5	9.5	307	18	10.0	7.4	347	21	10.3	9.0	316
3.6 . . .	6	14.0	12.6	321	9	13.1	10.4	338	13	11.6	8.5	001	18	11.7	8.8	320
4.5 . . .	2	17.5	13.4	006	1	13.0	13.0	345	5	11.8	9.0	039	17	16.1	11.6	321
5.4 . . .	1	10.0	10.0	355					2	9.5	4.8	090	14	16.8	13.9	320
6.0 . . .	1	9.0	9.0	355									10	16.1	12.8	303
7.2 . . .													4	28.3	27.6	285
9.0 . . .													3	14.3	3.1	207
													1	17.0	17.0	105
Station	JAMSHEDPUR				JHARSUGUDA				JODHPUR							
Time in I.S.T.	1730		0530		1730		2330		0530*		1130					
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	5.8	0.6	107	30	3.5	1.8	161	30	5.3	2.3	237	30	4.7	3.2	177
0.15 a.g. . .	29	10.5	2.7	109	30	9.1	4.4	188	28	10.0	3.9	213	30	13.0	6.6	183
0.3 a.m.s. 1. . .	29	10.5	2.5	116	30	7.9	3.8	179	28	10.1	4.1	219	30	10.4	5.9	177
0.6 . . .	29	10.4	1.2	174	30	10.4	7.7	250	28	10.4	3.2	242	30	14.3	7.5	210
0.9 . . .	29	10.3	1.5	202	30	13.0	10.1	262	28	10.4	4.3	276	30	13.4	7.5	238
1.5 . . .	27	9.3	1.2	278	29	14.1	10.3	278	27	9.5	4.3	294	28	10.4	6.6	275
2.1 . . .	26	8.9	3.7	314	28	11.1	7.8	294	24	9.4	4.3	313	27	9.9	6.8	306
3.0 . . .	21	13.7	11.6	321	23	9.6	6.4	333	21	10.7	5.7	327	21	9.4	5.7	317
3.6 . . .	16	15.8	12.7	316	21	9.6	6.3	332	19	11.6	8.0	327	13	9.8	4.9	335
4.5 . . .	12	17.8	15.1	297	8	11.3	10.4	230	7	13.9	11.8	308				
5.4 . . .	3	9.7	5.9	146									27	14.8	9.6	350
6.0 . . .	3	10.0	6.6	120									27	16.8	10.2	331
7.2 . . .	2	10.0	9.1	115									27	17.7	11.6	304
9.0 . . .	1	19.0	19.0	150									25	21.4	17.2	285

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9·0 Km. above mean sea level

June 1958 (Jyaistha 11—Asadha 9, 1880 Saka)

Station	JODHPUR								MADRAS															
	1730*				2330				0530*				1130				1730*				2330			
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
	Ht. in Km.																							
Surface . .	29	8·8	6·8	239	30	7·8	4·0	225	30	7·9	7·1	245	30	10·2	9·6	272	30	11·3	5·3	183	30	8·9	6·9	218
0·15 a.g. . .	29	9·5	8·0	239	28	19·2	14·4	221	30	11·3	10·3	245	30	13·1	12·7	269	30	12·9	6·6	195	29	17·7	14·7	222
0·3 a.m. s. 1. .	29	9·3	7·3	249	25	17·0	12·8	221	30	13·9	12·9	250	30	13·1	12·7	266	30	13·6	7·4	203	29	19·3	18·0	237
0·6 „ . .	29	10·8	9·1	243	28	19·4	16·4	229	30	18·6	18·0	260	30	13·6	13·3	267	30	15·0	9·1	233	29	22·6	21·6	248
0·9 „ . .	29	12·3	10·5	242	28	18·4	15·9	236	30	21·9	21·2	270	30	13·6	12·9	273	30	14·9	13·1	255	28	21·3	20·6	255
1·5 „ . .	29	12·3	10·4	249	25	15·4	12·9	248	30	21·1	19·3	281	29	16·2	14·1	281	30	16·5	14·7	269	27	18·4	17·5	269
2·1 „ . .	29	10·9	7·5	246	22	10·6	5·5	261	30	17·3	14·7	286	28	14·0	12·1	280	30	15·6	14·1	282	25	14·0	12·8	283
3·0 „ . .	29	9·9	4·5	317	14	9·9	3·8	007	30	16·1	8·5	298	28	12·2	7·4	287	30	15·7	11·9	290	22	12·3	7·7	320
3·6 „ . .	29	10·4	5·4	325	7	12·9	9·8	019	30	14·9	7·2	300	23	10·6	3·6	298	30	14·8	9·7	294	13	10·1	6·2	025
4·5 „ . .	29	13·1	8·6	349	2	13·0	13·0	360	30	12·9	4·5	305	21	9·8	2·6	333	30	13·6	6·9	314	1	4·0	4·0	290
5·4 „ . .	29	14·6	10·1	329	1	10·0	10·0	340	30	10·9	1·8	321	18	7·8	2·8	335	30	10·6	6·5	312				
6·0 „ . .	29	16·0	10·7	319	1	13·0	13·0	310	30	10·6	1·7	320	16	8·1	2·8	315	30	9·5	5·0	318				
7·2 „ . .	28	17·8	13·1	316					30	10·1	4·0	012	14	10·4	2·6	353	30	8·8	4·5	324				
9·0 „ . .	27	20·3	14·7	296					30	13·2	9·6	060	11	10·9	1·5	308	30	12·0	6·9	055				

Station	MANGALORE								MINICOY															
	0530				1730				2330				0530				1730				2330			
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	7·5	0·9	199	30	8·7	6·0	256	30	5·9	2·5	256	30	9·9	9·5	261	30	9·1	8·7	265	30	8·8	8·5	255
0·15 a.g. . .	22	10·4	2·2	198	23	12·9	9·1	240	23	10·2	6·5	242	29	17·7	17·2	254	28	17·6	17·2	260	30	16·6	15·9	255
0·3 a.m. s. 1. .	22	10·6	4·7	234	23	13·5	9·8	240	23	10·7	8·1	250	29	19·3	18·7	256	28	19·0	18·6	257	30	18·0	17·3	255
0·6 „ . .	22	11·7	9·1	257	21	11·6	9·3	251	23	12·6	10·4	261	29	20·3	19·9	258	28	20·0	19·6	260	30	19·8	19·1	259
0·9 „ . .	21	12·0	10·6	267	17	9·1	6·5	246	20	14·2	12·7	259	28	19·7	19·3	262	28	21·3	20·9	263	29	21·6	21·1	264
1·5 „ . .	20	13·9	12·9	267	14	7·0	3·5	284	17	13·5	11·7	266	28	20·5	20·0	265	21	18·7	18·3	266	27	22·1	21·6	265
2·1 „ . .	14	10·7	7·9	279	13	8·3	3·3	348	13	12·6	7·8	274	20	13·4	12·2	265	16	18·8	18·2	265	18	13·7	12·7	252
3·0 „ . .	11	9·9	2·3	006	12	9·7	7·2	055	10	9·9	3·2	346	13	9·4	6·2	255	9	13·8	11·2	258	13	10·7	5·7	240
3·6 „ . .	2	5·5	3·7	252	12	8·7	6·4	086	6	9·8	4·0	054	5	6·4	1·7	218	9	14·3	10·1	262	8	5·9	3·1	136
4·5 „ . .					10	9·9	6·8	106	4	8·0	6·7	078	3	4·0	2·1	150	7	8·4	5·5	279	5	5·4	2·5	094
5·4 „ . .					3	6·7	2·8	016	2	10·0	9·3	115	3	5·3	1·3	199	6	8·7	5·1	326	1	11·0	11·0	310
6·0 „ . .					2	10·5	9·9	054					2	4·0	2·3	104	6	7·8	5·2	315				
7·2 „ . .					2	15·0	15·0	057					1	11·0	11·0	105	4	4·5	1·9	034				
9·0 „ . .					1	13·0	13·0	075					1	6·0	6·0	095	3	10·0	9·4	066				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9·0 Km. above mean sea level

June 1958 (Jyaistha 11—Asadha 9, 1880 Saka)

Station	MOHANHARI												MUSSOORIE												
	0530				1130				1730				2330				0530				1730				
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Ht. in Km.																									
Surface . . .	30	1·9	1·3	126	15	1·2	0·3	198	30	1·2	0·7	055	30	0·9	0·7	055	30	3·3	2·3	354	30	4·9	3·9	227	
0·15 a. g. . .	20	6·3	4·1	068	15	4·3	2·2	210	30	5·1	1·6	004	26	6·3	3·7	039	28	7·6	4·7	356	27	9·0	7·2	228	
0·3 a. m. s. l. . .	20	6·5	3·9	080	15	4·5	2·6	202	30	5·1	1·3	016	26	6·3	3·3	010									
0·6 . . .	20	7·1	2·6	104	14	4·6	2·8	198	30	5·7	0·7	162	26	6·0	2·0	056									
0·9 . . .	20	6·3	1·6	136	14	4·8	3·4	215	29	5·0	1·8	216	26	6·0	1·8	135									
1·5 . . .	13	5·4	2·9	224	11	5·5	5·3	238	28	7·9	5·9	216	25	7·0	5·7	223									
2·1 . . .	15	6·9	4·3	242	7	6·4	6·2	243	24	9·0	7·2	217	20	8·5	7·9	240	28	7·3	4·3	346	27	10·4	9·2	227	
3·0 . . .	13	6·8	5·4	249	4	5·5	5·4	255	21	7·8	6·9	216	17	8·5	7·4	229	27	9·5	7·3	306	26	10·5	8·3	261	
3·6 . . .	12	9·3	7·8	236					19	7·8	7·1	220	12	9·5	9·1	213	27	10·8	7·7	308	25	9·8	7·2	287	
4·5 . . .	8	8·0	6·6	226					16	9·1	7·9	233	7	9·2	9·0	214	25	10·2	7·1	299	22	12·2	7·9	324	
5·4 . . .	5	17·0	16·7	240					8	12·0	12·0	233	6	15·0	14·2	227	24	13·7	11·8	303	19	13·2	10·6	333	
6·0 . . .	5	20·6	20·2	235					8	17·4	17·3	238	2	20·5	19·9	232	21	17·0	15·3	295	16	16·0	14·5	316	
7·2 . . .	2	21·0	20·9	228					5	22·8	22·5	244					15	20·1	18·6	262	12	26·3	25·6	295	
9·0 . . .	1	25·0	25·0	225					3	31·6	31·4	238					4	36·2	35·6	267	8	30·0	29·5	278	

Station	NAGPUR												NANPARA												
	0530*				1130				1730*				2330				0530				1730				
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Ht. in Km.																									
Surface . . .	30	6·4	5·2	296	30	6·2	4·7	284	30	7·4	4·7	317	30	6·8	4·5	286	30	5·2	3·5	101	30	6·9	2·5	281	
0·15 a. g. . .	30	16·9	12·9	291	30	9·9	7·4	286	30	11·8	8·0	283	28	14·1	10·2	297	28	15·3	7·7	113	30	11·2	4·6	292	
0·3 a. m. s. l. . .																	28	15·7	7·5	121	30	11·2	4·4	289	
0·6 . . .	30	16·8	12·9	295	30	9·8	7·3	292	30	10·0	6·9	283	28	14·4	10·6	301	28	16·5	6·0	120	30	12·9	4·8	285	
0·9 . . .	30	17·7	14·2	306	30	9·7	7·9	297	30	8·6	6·6	285	28	13·8	10·1	304	28	15·0	0·9	171	29	13·8	5·7	276	
1·5 . . .	30	15·3	11·8	313	29	8·9	6·6	303	30	10·8	7·8	268	28	11·9	8·5	297	25	14·3	7·8	292	27	14·7	6·4	274	
2·1 . . .	30	11·1	7·6	320	27	8·7	5·7	306	30	10·2	7·0	275	25	9·1	6·8	299	22	15·0	10·2	293	21	12·3	8·3	280	
3·0 . . .	30	8·9	5·3	314	25	9·0	5·5	288	29	10·6	5·7	292	23	7·9	4·9	306	11	12·6	11·4	301	15	14·1	12·3	290	
3·6 . . .	30	8·7	3·5	309	23	9·8	6·1	281	28	9·7	4·4	311	10	6·8	3·6	300	8	11·9	9·1	305	12	14·3	12·9	294	
4·5 . . .	29	8·3	1·3	317	19	11·6	7·3	285	25	9·8	5·9	320	3	4·3	4·2	252	5	9·4	6·9	288	7	20·0	19·4	288	
5·4 . . .	29	9·8	1·5	339	17	11·4	5·9	293	29	10·3	5·5	327					4	10·2	4·7	273	3	22·7	21·7	295	
6·0 . . .	26	10·4	3·1	002	16	12·4	7·5	291	23	10·3	6·3	323					3	14·0	3·8	256	2	18·0	16·9	300	
7·2 . . .	24	11·2	2·6	345	13	16·4	7·5	294	22	12·8	3·2	325					3	14·0	4·8	253	1	28·0	28·0	305	
9·0 . . .	22	13·9	2·8	065	10	17·0	5·3	256	16	16·2	2·6	037					1	9·0	9·0	265					

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9·0 Km. above mean sea level

June 1958 (Jyaistha 11—Asadha 9, 1880 Saka)

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9·0 Km. above mean sea level

June 1958 (Jyaistha 11—Asadha 9, 1880 Saka)

Station	RAIPUR								RAXAUL								SANTA CRUZ								
	1730				2330				0530				1730				0530*				1130				
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Ht. in Km.																									
Surface . .	30	5·2	3·2	241	30	5·1	3·2	230	30	3·0	2·9	086	30	2·9	1·0	079	30	7·6	5·5	238	30	10·6	8·3	241	
0·15 a.g. . .	28	10·2	6·0	260	28	14·4	9·0	245	28	14·3	13·8	093	29	11·1	4·3	075	27	11·6	9·3	245	24	11·9	10·3	230	
0·3 a.m.s.l. . .									28	17·3	16·6	097	29	11·4	4·7	080	30	12·1	9·6	242	24	11·6	9·8	227	
0·6 „ . .	28	10·8	6·6	274	28	15·5	9·9	258	28	17·3	16·4	107	29	12·1	3·8	092	30	12·8	10·6	244	22	10·3	7·4	225	
0·9 „ . .	28	10·5	6·4	283	28	15·5	10·2	269	27	12·7	10·2	114	29	11·2	1·5	135	31	13·3	10·4	247	19	9·3	5·1	222	
1·5 „ . .	28	9·5	6·2	299	28	16·0	9·7	289	27	10·4	3·8	184	27	12·5	4·6	244	30	14·1	8·5	260	14	11·7	3·9	296	
2·1 „ . .	27	9·9	6·3	302	26	11·7	7·4	298	25	15·2	10·9	272	27	14·3	9·7	265	30	15·3	6·3	270	12	13·6	3·1	338	
3·0 „ . .	18	9·9	6·7	327	21	8·8	6·0	310	24	19·7	16·1	289	21	16·5	11·5	284	30	12·9	2·1	270	11	13·3	1·1	134	
3·6 „ . .	14	10·9	8·9	320	10	8·8	6·9	304	21	18·5	14·3	290	19	14·0	8·2	275	30	12·4	0·5	202	8	13·4	8·2	126	
4·5 „ . .	6	14·0	12·1	306	1	16·0	16·0	310	16	13·8	10·8	288	15	11·6	6·2	284	30	12·3	1·5	095	7	15·9	11·7	123	
5·4 „ . .	1	11·0	11·0	340					13	13·3	11·2	278	7	11·1	9·9	296	30	11·4	1·5	094	6	18·3	10·5	121	
6·0 „ . .	1	11·0	11·0	310					12	13·3	11·8	265	7	12·4	11·3	289	29	11·9	2·1	009	6	16·8	3·9	117	
7·2 „ . .									4	16·7	13·9	284	3	19·0	18·5	294	28	15·2	1·9	056	5	15·4	1·7	206	
9·0 „ . .									2	20·5	19·7	251	3	20·7	20·5	263	25	15·3	1·5	204	4	12·5	7·1	161	

Station	SANTA CRUZ								TEZPUR																
	1730*				2330				0530				1130				1730				2330				
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Ht. in Km.																									
Surface . .	30	12·7	11·2	250	30	7·7	5·3	215	30	1·0	0·5	117	15	2·3	0·8	240	30	0·9	0·2	171	30	0·7	0·7	078	
0·15 a.g. . .	27	15·1	13·5	260	25	11·4	9·3	216	25	6·8	2·9	152	15	4·7	1·5	248	30	5·9	0·9	232	27	6·5	1·4	064	
0·3 a.m.s.l. . .	30	15·2	13·3	259	25	12·4	10·4	221	25	6·7	2·6	176	15	5·2	0·9	241	30	6·2	1·0	250	27	6·6	8·2	109	
0·6 „ . .	30	15·3	13·0	256	23	13·7	11·6	228	25	7·1	4·4	229	15	5·0	2·2	245	30	7·3	2·2	252	27	7·1	1·3	212	
0·9 „ . .	30	15·9	13·3	254	21	13·8	11·5	239	22	7·5	5·0	258	14	4·5	2·5	252	30	8·6	4·4	232	27	8·5	3·6	246	
1·5 „ . .	30	16·0	13·0	235	17	13·7	8·5	272	19	8·3	7·1	265	12	6·4	5·8	250	30	10·2	7·7	237	26	11·3	7·2	232	
2·1 „ . .	30	15·8	11·8	229	12	12·7	8·6	302	16	8·6	7·9	260	7	8·0	7·7	261	27	12·7	10·6	244	23	12·2	8·6	241	
3·0 „ . .	30	14·4	8·5	223	9	9·4	3·2	315	10	7·4	7·1	256	4	11·5	11·1	260	22	13·5	11·5	252	17	10·8	10·3	245	
3·6 „ . .	30	16·3	4·6	270	6	8·0	3·2	024	7	7·0	6·4	253					17	11·6	8·9	248	9	7·7	7·2	233	
4·5 „ . .	30	11·2	0·1	297					6	10·5	6·7	248					14	9·3	8·1	252	7	9·7	8·3	228	
5·4 „ . .	30	11·6	1·5	086					4	12·7	12·0	234					13	11·2	10·5	264	2	13·0	11·7	239	
6·0 „ . .	30	11·8	3·1	060					4	16·2	14·7	213					9	16·5	15·8	259	1	14·0	14·0	225	
7·2 „ . .	30	16·2	12·1	061					3	21·3	20·0	225					3	23·0	23·0	251					
9·0 „ . .	23	17·0	4·0	112													1	23·0	23·0	235					

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

June 1958 (Jyaistha 11—Asadha 9, 1880 Saka)

Station	TIRUCHIRAPALLI								TRIVANDRUM																
	0530				1730				2330				0530*				1130				1730*				
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Ht. in Km.																									
Surface . .	30	12·0	12·0	270	30	15·5	14·7	270	30	15·2	14·6	268	30	4·5	4·1	318	30	5·3	4·8	308	30	7·5	6·7	070	
0·15 a. g. .	30	19·1	18·9	270	27	16·3	14·7	270	26	19·6	17·9	268	29	7·9	7·1	308	25	9·8	9·5	300	29	9·7	8·9	291	
0·3 a. m. s. l. .	30	21·6	21·5	270	27	16·3	14·7	270	26	20·9	19·2	268	29	10·1	9·5	304	25	11·2	10·7	295	29	11·6	10·7	290	
0·6 „ .	30	29·7	29·6	269	27	17·9	16·5	270	26	24·2	23·2	267	29	14·4	13·9	296	24	16·6	15·8	288	29	15·7	15·0	290	
0·9 .. .	30	30·8	30·4	270	27	17·0	15·9	261	26	22·4	22·1	268	28	19·0	18·4	285	19	20·4	19·7	283	29	19·1	18·6	282	
1·5 .. .	30	21·1	20·6	273	27	16·1	15·3	261	26	16·6	15·6	271	28	21·5	20·7	283	11	22·2	21·9	282	29	22·1	21·2	286	
2·1 „ .	28	14·7	11·9	269	25	16·9	15·8	264	25	11·7	9·4	281	28	19·4	18·7	280	7	24·7	24·5	283	29	21·5	20·6	286	
3·0 „ .	27	12·3	4·7	308	22	15·7	12·0	276	25	14·3	6·7	287	28	16·9	13·8	272					29	19·7	16·3	281	
3·6 „ .	23	11·9	3·2	315	17	14·2	5·6	310	21	11·9	2·8	285	27	15·6	14·1	277					28	17·3	12·8	278	
4·5 „ .	19	8·0	1·9	022	12	7·5	2·7	023	9	7·4	1·7	194	25	13·5	10·3	285					28	13·7	7·9	277	
5·4 „ .	15	7·2	3·1	010	9	6·0	0·7	323					25	10·8	6·4	304					28	9·8	4·1	300	
6·0 „ .	14	6·9	3·0	034	9	7·1	4·0	300					25	9·5	5·1	315					28	8·4	3·4	306	
7·2 „ .	6	11·3	6·3	090	6	9·0	7·8	356					25	11·2	3·6	030					28	10·1	3·7	020	
9·0 „ .	2	12·5	12·1	059	3	11·3	6·3	047					23	18·0	13·2	066					26	18·2	14·7	065	
Station	TRIVANDRUM				UDAIPUR								VENGURLA												
Time in I. S. T.	2330				0530				1730				2330				0530				1730				
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Surface . .	30	5·3	4·6	328	30	1·8	1·5	242	30	4·6	4·4	219	30	4·1	2·9	235	30	4·0	1·7	220	30	6·5	4·0	233	
0·15 a. g. .	18	10·9	9·7	295	30	7·4	6·1	246	30	10·6	8·5	227	29	11·5	9·1	235	24	10·5	4·6	251	20	13·2	8·0	234	
0·3 a. m. s. l. .	18	12·9	12·1	294													24	12·0	6·8	250	20	15·0	9·3	231	
0·6 „ .	18	17·2	16·8	291													24	14·0	10·0	254	20	15·5	9·3	224	
0·9 „ .	17	18·4	18·1	290	30	8·4	6·7	252	30	12·0	9·7	230	29	12·4	10·0	245	16	14·1	11·0	261	18	13·7	7·4	213	
1·5 „ .	15	19·3	18·9	291	29	9·9	6·6	255	30	10·8	7·7	246	29	13·3	11·3	255	11	11·2	5·1	290	14	9·8	1·6	020	
2·1 „ .	10	12·7	11·8	285	28	8·9	3·3	267	29	10·0	5·7	271	28	10·9	5·0	275	8	10·9	1·5	101	12	12·3	4·9	343	
3·0 „ .	5	11·2	5·2	268	24	11·4	4·3	323	28	11·7	5·2	335	26	12·7	3·8	041	5	14·6	13·3	139	11	10·5	3·1	342	
3·6 „ .	3	5·7	4·9	037	11	12·3	2·7	354	23	13·3	6·8	349	20	10·3	5·7	050	3	14·0	11·4	145	11	11·3	1·0	239	
4·5 „ .	2	8·0	7·5	272	3	9·7	8·4	295	21	14·3	8·1	329	10	11·9	7·7	046	1	9·0	9·0	175	10	8·1	0·5	108	
5·4 „ .									20	14·7	11·0	325	05	8·6	5·1	010					10	10·3	5·5	343	
6·0 „ .									19	17·0	12·9	315	03	6·7	0·7	302					10	11·8	6·1	336	
7·2 „ .									16	18·7	14·3	300									7	10·0	6·0	328	
9·0 „ .									7	14·4	8·4	293									4	7·7	4·1	264	

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

June 1938 (Jyaistha 11—Asadha 9, 1880 Saka)

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9·0 Km. above mean sea level

June 1958 (Jyaistha 11—Asadha 9, 1880 Saka)

Ht. in Km.	n V v D	Ht. in Km.	n V v D	Ht. in Km.	n V v D	Ht. in Km.	n V v D	Ht. in Km.	n V v D
AGARTALA									
0530 hrs.									
AMRITSAR									
0530 hrs.*									
10·5	5 16·4 14·5 189	10·5	20 44·6 39·5 280	12·0	2 8·0 6·5 062	10·5	13 16·8 12·8 229	10·5	1 46·0 46·0 265
12·0	3 14·7 14·4 192	12·0	14 46·7 44·3 272	14·1	1 13·0 13·0 130	12·0	7 22·3 11·8 225		
14·1	3 11·7 9·3 144	14·1	8 44·5 43·0 272		1 41·0 41·0 105	14·1	4 35·2 21·9 201		
16·2	2 30·0 23·7 149	16·2	6 30·3 28·5 298						
18·0	1 10·2 10·2 165	18·0	1 35·0 35·0 280	10·5					
BAREILLY									
1730 hrs.									
1730 hrs.*									
10·5	3 12·7 12·0 251	10·5	19 39·1 36·8 285	14·1	4 14·5 11·0 202				
12·0	2 18·0 18·0 218	12·0	12 44·2 39·1 282	16·2	3 17·0 14·5 266				
14·1	1 18·0 18·0 200	14·1	6 34·0 32·9 283	18·0	1 13·0 13·0 130				
16·2	1 29·0 29·0 180	16·2	4 25·0 22·5 244						
BHUBANESHWAR									
2330 hrs.									
18·0									
10·5	1 4·0 4·0 130								
ANANTPUR									
0530 hrs.									
AHMEDABAD									
10·5									
BIKANER									
1730 hrs.									
10·5	3 16·6 16·3 235	14·1	1 30·0 30·0 100	10·5	5 17·0 15·4 320	16·2	1 16·0 16·0 075	10·5	5 21·0 10·2 320
12·0	1 12·0 12·0 195	16·2	1 37·0 37·0 090	14·1	3 20·7 17·2 330			12·0	2 16·0 14·8 357
AMAUSI									
1730 hrs.									
10·5									
DARJEELING									
0530 hrs.									
ASANSOL									
1730 hrs.									
10·5	1 25·0 25·0 205								
DUM DUM									
0530 hrs.*									
AMBALA									
10·5									
BAMRAULI									
0530 hrs.*									
10·5	3 29·7 29·3 275	10·5	15 24·9 21·8 244	16·2	1 42·0 42·0 080				
12·0	3 30·3 29·9 257	12·0	11 28·3 22·0 231						
14·1	1 28·0 28·0 235	14·1	5 27·0 14·6 207	10·5	27 11·7 4·2 150	12·0	1 17·0 17·0 195	14·1	23 43·7 40·9 090
16·2	1 35·0 35·0 245	16·2	1 23·0 23·0 090	12·0	27 14·7 8·3 130	14·1	1 21·0 21·0 195	16·2	9 53·1 50·6 094
18·0	1 37·0 37·0 245			14·1	21 18·7 14·2 105	16·2	1 2·0 2·0 290	18·0	4 51·0 50·3 081
1730 hrs.*									
10·5	7 43·0 40·4 281	10·5	20 20·7 13·2 228	16·2	11 23·1 18·1 096				
12·0	6 40·3 38·8 277	12·0	18 24·4 16·0 203	18·0	4 26·7 19·1 103	10·5	4 16·7 15·9 231	10·5	6 13·8 8·4 051
14·1	5 42·6 42·4 256	14·1	7 21·0 11·3 163						
GADAG									
1730 hrs.									
10·5	5 42·6 42·4 256	18·0	3 19·3 16·7 110						
16·2	5 45·2 45·2 248	18·0	2 37·0 32·5 081	10·5	3 8·0 3·1 219				
JABALPUR									
0530 hrs.									
18·0	3 38·0 37·7 245								
21·0	2 16·0 14·7 240			12·0	2 21·5 15·9 165	10·5	1 17·0 17·0 175	16·2	6 59·8 55·6 096
24·0	2 19·5 10·3 236	10·5	1 12·0 12·0 085	16·2	1 15·0 15·0 100	12·0	1 16·0 16·0 145	18·0	2 46·0 43·7 108

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9.0 km. above mean sea level

June 1958 (Jyaistha 11—Asadha 9, 1880 Saka)

Ht. in Km.	n	V	v	D	Ht. in Km.	n	V	v	D	Ht. in Km.	n	V	v	D	Ht. in Km.	n	V	v	D	
MINICOY																				
0530 hrs.																				
10.5	1	11.0	11.0	085	10.5	27	34.9	31.7	271	10.5	22	15.6	2.5	183	10.5	1	9.0	9.0	215	
					12.0	25	37.9	35.7	266	12.0	16	20.3	6.6	121						
					14.1	21	32.5	27.1	253	14.1	10	27.2	15.1	104						
10.5	2	19.5	19.5	080	16.2	16	22.6	19.2	241	16.2	6	26.0	21.3	109						
12.0	2	31.0	31.0	103	18.0	10	16.4	6.5	152	18.0	1	71.0	71.0	018	10.5	23	21.4	2.6	253	
					21.0	3	17.3	17.1	275						12.0	22	25.6	5.1	235	
MOHANBARI																				
						1130 hrs.					1130 hrs.					14.1	16	24.5	7.3	196
						1730 hrs.						1730 hrs.				16.2	7	19.4	7.0	116
10.5	1	34.0	34.0	236	10.5	5	28.4	28.0	260	10.5	2	15.5	6.8	175		18.0	3	21.7	9.2	109
12.0	1	37.0	37.0	235	10.5	24	29.8	28.0	280	10.5	22	18.7	12.0	102	21.0	1	40.0	40.0	099	
						1730 hrs.						1730 hrs.								
MUSSOORIE																				
						12.0	23	31.9	28.7	259	12.0	15	25.4	20.0	088	10.5	2	15.0	13.7	314
						14.1	19	31.5	26.8	244	14.1	9	30.0	24.3	074	12.0	1	5.0	5.0	035
						16.2	15	14.3	7.8	227	16.2	5	42.2	40.8	100					
10.5	4	38.5	38.1	279	18.0	10	11.9	9.9	099	18.0	3	58.0	57.1	090						
						21.0	2	28.0	26.4	101										
NAGPUR																				
						POONA					TIRUCHIRAPALLI				12.0	21	22.3	3.3	096	
						0530 hrs.*					0530 hrs.				14.1	18	25.3	11.8	096	
10.5	18	16.6	5.6	129	10.5	6	13.3	11.2	248	10.5	1	17.0	17.0	070	16.2	11	35.3	31.3	083	
12.0	15	21.3	13.6	114	12.0	4	16.3	12.7	187			1730 hrs.			18.0	5	32.6	30.6	087	
14.1	11	28.0	14.6	108	14.1	3	12.3	12.1	149	10.5	1	3.0	3.0	056						
16.2	7	34.0	32.9	087						12.0	1	27.0	27.0	105						
18.0	4	29.8	28.5	084											10.5	24	20.1	1.8	103	
PORT BLAIR																				
						1130 hrs.					0530 hrs.*					12.0	21	22.3	3.3	096
10.5	4	31.5	13.7	229	10.5	9	21.8	18.6	089	10.5	20	26.5	22.8	074						
12.0	2	32.5	28.3	196	12.0	7	33.7	33.1	084	12.0	17	36.4	30.0	079						
14.1	2	31.0	25.7	193	14.1	4	45.0	43.2	093	14.1	10	55.6	55.5	081						
16.2	2	21.0	15.7	142	16.2	4	79.0	78.9	080	16.2	3	30.7	29.7	072						
						18.0	3	69.7	69.3	099										
						1730 hrs.*														
10.5	12	22.7	10.3	248	21.0	1	138.0	138.0	090			1730 hrs.*								
12.0	8	33.9	14.2	245	24.0	1	29.0	29.0	020	10.5	24	25.3	21.5	078						
14.1	5	43.5	32.0	100						12.0	22	38.1	35.5	078						
16.2	3	63.3	62.0	082	10.5	11	25.0	24.0	070	14.1	18	59.7	56.4	083						
18.0	2	76.5	75.5	082	12.0	7	29.9	25.2	056	16.2	6	54.5	52.7	093						
						14.1	4	41.3	37.3	088	18.0	4	36.0	35.5	079					
NANPARA																				
						16.2	4	49.0	47.7	080						12.0	21	21.0	21.0	230
						0530 hrs.										14.1	1	41.0	41.0	285
						UDAIPUR														
10.5	1	9.0	9.0	295		RAXAUL														
12.0	1	16.0	16.0	280		1730 hrs.						1730 hrs.								
14.1	1	12.0	12.0	040	10.5	1	21.0	21.0	230	12.0	1	41.0	41.0	285						

RADIOSONDE DATA**June 1953 (Jyaistha 11—Asadha 9, 1953 Saka)**

During the month, observations of upper air temperature, pressure and humidity were made at 13 stations in India as given in the list below. For a detailed description of the instruments used, a reference may be made to the I.M.D. Scientific Notes Nos. 112 and 113 (Volume IX).

LIST OF RADIOSONDE STATIONS IN INDIA

Serial No.	Name of station	Type of instrument used	Date of starting	Hours of routine observations in GMT during the month	Remarks
1	Allahabad	Clock type	1st October, 1944	00 and 12	
2	Amritsar	Clock type	21st June, 1957	00 and 12	
3	Bombay	Clock type	7th September, 1954	00 and 12	
4	Calcutta	Clock type	13th December, 1946	00 and 12	Fan type used from 13th December, 1946 to 30th November, 1947.
5	Gauhati	Clock type	22nd July, 1953	00 and 12	
6	Jodhpur	Clock type	17th April, 1946	00 and 12	
7	Madras	Fan type	29th June, 1946	00 and 12	
8	Nagpur	Fan type	1st October, 1946	00 and 12	
9	New Delhi	Clock type	3rd December, 1943	00 and 12	
10	Port Blair	Fan type	4th December, 1949	00 and 12	
11	Trivandrum	Fan type	1st July, 1947	00 and 12	
12	Veraval	Fan type	3rd October, 1944	00 and 12	
13	Visakhapatnam	Fan type	8th December, 1946	00 and 12	

RADIOSONDE DATA

TABLE VI.—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES
 (A) From Ascents at 00 Hours G. M. T.
 June 1958 (Jyaistha 11—Asadha 9, 1880 Saka)

Standard Pressure Surface mbs.	ALLAHABAD Surf. Pr. (986 mb.)						AMRITSAR (971 mb.)						BOMBAY (1002 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point
Surface	30	098	304.6	313	300	292.0	30	230	300.2	305	292	289.9	30	013	300.8	304	297	297.3
1000	28	-027	..	..	..	..	28	-026	..	..	..	..	30	033	..	..	..	..
900	28	919	303.3	308	298	285.2	28	909	303.0	308	299	283.3	30	963	296.1	299	295	292.4
850	28	1427	299.9	306	294	283.8	28	1414	299.9	306	291	282.3	30	1461	294.7	299	291	287.4
800	28	1959	296.0	300	291	281.0	28	1948	296.3	301	287	280.6	30	1986	293.2	297	290	282.3
700	28	3104	286.8	290	283	273.8	28	3090	287.7	293	279	274.0	30	3126	286.8	290	285	276.3
600	28	4381	277.4	281	273	266.6	28	4368	277.8	283	272	263.0	30	4408	278.7	283	275	270.6
500	27	5844	269.4	274	264	250.2	28	5825	267.7	275	264	..	30	5878	270.4	277	265	270.3
400	27	7579	260.2	265	255	..	28	7542	258.1	264	249	..	29	7621	262.0	269	256	..
300	24	9721	247.5	251	241	..	23	9659	244.6	253	233	..	23	9772	248.9	258	243	..
250	24	11016	238.5	243	232	..	17	10945	236.7	246	226	..	22	11082	240.0	252	235	..
200	22	12525	226.6	231	221	..	15	12480	227.5	235	217	..	18	12640	230.5	241	223	..
175	21	13408	220.5	226	215	..	11	13353	222.0	232	214	..	11	13481	221.5	224	216	..
150	19	14391	213.2	218	207	..	8	14322	216.1	223	209	..	10	14464	214.2	218	210	..
125	18	15505	205.7	210	199	..	5	15467	213.2	218	206	..	8	15604	205.1	209	203	..
100	18	16831	200.3	210	190	..	5	16833	207.8	211	199	..	6	16720	197.2	202	194	..
80	12	18151	201.2	205	192	..	..	..	..	..	..	..	..	..	..	..	..	..
	CALCUTTA (999 mb.)						GAUHATI (996 mb.)						JODHPUR (975 mb.)					
Surface	30	006	300.8	303	297	299.7	29	049	299.9	303	297	298.2	30	218	303.9	307	301	294.6
1000	30	-004	..	..	..	..	29	013	..	..	..	..	30	-010	..	..	..	..
900	30	925	297.8	303	293	291.5	29	940	295.8	299	293	292.7	30	931	301.4	307	296	290.1
850	30	1424	295.5	303	289	287.5	29	1437	293.3	297	290	289.8	30	1437	300.0	304	296	285.9
800	30	1948	292.5	299	288	285.1	29	1960	290.6	294	287	286.9	30	1969	296.8	302	294	281.6
700	30	3084	285.3	290	281	278.7	29	3090	284.5	289	279	280.3	30	3119	289.5	294	285	273.2
600	30	4358	276.8	281	272	271.2	29	4365	277.9	283	271	273.6	29	4406	279.8	283	272	262.3
500	30	5821	269.3	273	263	264.7	28	5829	270.5	274	263	..	29	5873	269.4	276	264	..
400	30	7558	260.1	264	251	..	28	7571	260.8	265	251	..	29	7607	259.9	267	246	..
300	28	9700	246.4	254	235	..	17	9708	246.9	253	242	..	28	9740	246.1	254	229	..
250	25	11013	238.0	245	233	..	13	11008	238.0	243	231	..	26	11053	238.5	247	230	..
200	22	12546	226.1	233	217	..	11	12495	225.0	232	215	..	24	12579	228.1	236	219	..
175	19	13409	218.3	227	214	..	7	13360	219.0	226	212	..	23	13462	222.1	229	215	..
150	16	14417	212.3	221	208	..	6	14346	212.7	219	205	..	23	14450	215.6	225	209	..
125	10	15558	205.8	211	199	..	..	..	..	..	..	..	21	15588	209.1	224	199	..
100	10	16902	202.2	207	195	..	..	..	..	..	..	..	19	16954	203.9	210	194	..
80	..	..	..	..	..	..	..	..	..	..	..	..	14	18292	208.6	235	195	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 00 Hours G. M. T.

June 1958 (Jyaistha 11—Asadha 9, 1880 Saka)

Standard Pressure Surface mbs.	MADRAS Surf. Pr. (1002 mb.)							NAGPUR (966 mb.)							NEW DELHI (974 mb.)						
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A						
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			
Surface	30	015	302.9	304	301	295.2	30	311	302.6	307	297	291.8	30	210	302.7	307	297	290.7			
1000	30	029	..	..	..	..	30	-015	..	..	..	..	30	-022	..	..	..	..
900	30	964	298.4	303	294	290.0	30	938	300.8	307	293	287.8	30	918	302.6	306	297	285.8			
850	30	1465	296.0	301	293	286.8	30	1443	297.9	304	291	285.7	30	1424	299.9	304	295	283.2			
800	30	1991	292.7	297	289	281.5	30	1972	291.2	299	288	283.9	30	1955	296.1	306	291	281.1			
700	30	3127	284.8	288	281	278.5	30	3113	285.8	289	282	277.8	30	3098	286.5	290	282	274.9			
600	30	4397	276.1	279	273	271.3	30	4389	276.8	283	272	270.0	30	4374	276.9	280	273	265.4			
500	30	5852	267.4	271	265	..	28	5842	266.9	273	260	..	30	5830	268.0	273	260	..			
400	30	7572	258.4	252	255	..	25	7560	257.8	263	253	..	30	7556	258.6	265	249	..			
300	30	691	243.9	249	239	..	22	9682	244.0	251	235	..	29	9674	244.5	251	237	..			
250	27	10965	234.6	239	228	..	20	10957	234.9	241	225	..	26	10961	235.9	244	227	..			
200	26	12471	222.6	231	215	..	16	12466	224.6	233	215	..	25	12467	226.2	233	220	..			
175	22	13348	216.0	223	209	..	15	13343	218.5	228	210	..	24	13345	221.4	228	217	..			
150	21	14289	208.5	217	201	..	13	14299	210.1	220	201	..	24	14332	215.0	220	209	..			
125	12	15149	205.4	211	192	..	9	15421	202.1	213	192	..	23	15460	208.0	214	199	..			
100	8	16773	199.5	205	195	..	8	16744	198.1	205	193	..	21	16783	201.8	210	193	..			
80	5	18076	196.2	200	193	..	6	18096	200.5	213	193	..	18	18113	202.6	207	197	..			

	PORT BLAIR (997 mb.)							TRIVANDRUM (1001 mb.)							VERAVAL (1001 mb.)						
	Surface	30	079	298.4	301	295	296.7	29	064	298.4	301	296	296.6	30	008	301.9	303	299	299.1		
1000	30	052	..	..	..	..	29	073	..	..	..	..	27	025	..	..	..	..
900	30	979	295.7	297	293	293.0	29	996	293.6	296	291	290.6	27	951	297.3	302	293	287.5			
850	30	1475	293.2	296	289	290.2	29	1489	291.2	294	289	286.3	27	1450	295.9	301	292	281.0			
800	30	1998	291.1	294	286	287.1	29	2007	288.6	291	286	283.2	27	1977	293.4	299	289	278.3			
700	30	3133	285.3	290	279	281.7	29	3129	283.1	287	279	275.8	27	3112	286.4	290	281	273.0			
600	29	4411	278.0	282	274	275.4	28	4393	275.6	277	273	268.9	27	4387	277.1	282	273	266.5			
500	29	5880	271.0	276	265	268.6	28	5846	267.2	271	263	..	27	5846	268.6	275	262	..			
400	29	7625	261.9	268	255	..	28	7561	256.5	261	251	..	27	7571	258.9	268	254	..			
200	20	9785	250.1	257	241	..	25	9669	242.6	248	235	..	27	9699	245.6	255	240	..			
250	10	11054	239.7	243	234	..	24	10945	233.1	239	226	..	24	10984	235.9	243	230	..			
200	8	12591	228.1	233	221	..	23	12429	221.3	228	211	..	23	12482	224.4	232	217	..			
175	5	13466	222.2	225	220	..	17	13298	214.6	222	205	..	19	13330	217.2	226	210	..			
150	5	14470	215.6	220	213	..	16	14277	208.5	214	201	..	16	14313	211.2	220	202	..			
125	..	..	..	..	..	..	10	15381	203.2	207	197	..	15	15430	204.9	214	192	..
100	..	..	..	..	..	..	5	16696	196.4	207	189	..	7	16874	203.6	208	200	..
80	..	..	..	..	..	..	..	..	..	..	..	..	5	18217	201.8	209	195	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 00 Hours G. M. T.

June 1958 (Jyaistha 11—Asadha 9, 1880 Saka.)

Standard Pressure Surface mbs.	No. of Obs.	Ht. gpm.	VISAKHAPATNAM Surf. Pr. (995 mb.)			
			Temperature °A			
			Mean	Max.	Min.	Dew Point
Surface	30	048	302.3	304	299	298.0
1000	30	008	..	..	..	..
900	29	944	299.6	304	294	289.4
850	29	1446	297.3	302	291	285.8
800	29	1974	293.9	300	288	283.9
700	29	3112	285.7	291	281	277.3
600	29	4384	276.8	283	271	271.8
500	29	5840	267.2	272	259	..
400	28	7558	257.4	263	249	..
300	19	9676	243.7	248	235	..
250	13	10939	234.5	241	226	..
200	9	12445	224.6	227	221	..
175	6	13257	219.5	223	216	..
150	6	14257	213.7	220	210	..
125	..	..	..	..	..	..
100	..	..	..	..	..	..
80	..	..	..	..	..	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES
 (B) From Ascents at 12 Hours G. M. T.
 June 1953 (Jyaistha 11—Asadha 9, 1880 Salika)

Standard Pressure Surface mbs.	ALLAHABAD Surf. Pr. (984 mb.)						AMRITSAR (970 mb.)						BOMBAY (1001 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point
Surface	30	98	312.0	317	302	292.2	30	230	311.9	316	304	287.8	30	13	303.6	307	298	297.7
1000	30	-49	..	..	..	..	28	-46	..	..	..	..	30	23	..	..	..	..
900	30	912	305.2	314	298	285.6	28	915	307.9	311	302	281.0	30	959	297.9	302	293	291.4
850	30	1424	302.3	310	295	283.0	28	1428	303.7	308	299	277.2	30	1459	296.5	300	291	285.9
800	30	1959	297.8	304	292	280.7	28	1964	298.9	304	293	273.2	30	1986	294.0	299	288	283.3
700	30	3110	288.8	294	284	275.7	28	3117	289.5	297	283	265.8	30	3129	287.6	291	283	277.4
600	29	4399	279.6	283	275	267.1	28	4403	279.4	285	273	250.4	30	4416	280.3	285	272	271.5
500	29	5873	271.3	275	264	256.4	28	5867	268.9	274	261	..	30	5895	272.4	280	262	269.5
400	28	7618	261.7	265	254	..	28	7595	259.0	266	249	..	30	7650	263.8	272	245	..
300	26	9730	247.4	253	239	..	20	9710	244.8	253	233	..	24	9839	252.5	260	245	..
250	26	11069	238.4	251	232	..	16	10999	236.1	245	223	..	17	11165	243.4	251	237	..
200	23	12588	226.9	241	218	..	12	12523	227.1	233	217	..	14	12724	232.8	241	225	..
175	22	13454	219.8	226	209	..	11	13429	223.1	230	214	..	9	13585	225.1	233	219	..
150	17	14432	212.3	217	204	..	9	14468	216.8	225	212	..	7	14536	214.7	218	211	..
125	13	15506	206.2	213	196	..	7	15629	211.1	223	206	..	5	15702	208.4	213	205	..
100	10	16801	199.9	214	194	..	6	17005	206.0	221	199	..	5	17026	201.0	207	197	..
80	7	18092	198.7	207	193	..	..	..	..	..	..	..	..	..	..	..	..	..
	CALCUTTA (997 mb.)						GAUHATI (993 mb.)						JODHPUR (972 mb.)					
Surface	30	6	305.7	309	300	299.6	30	49	303.6	306	299	299.6	29	218	313.6	317	311	293.0
1000	30	-24	..	..	..	..	30	-13	..	..	..	..	29	-43	..	..	..	..
900	30	919	300.3	305	296	293.6	30	925	298.1	302	293	293.4	29	923	307.2	311	302	289.6
850	30	1422	297.6	304	293	289.0	30	1425	295.4	299	291	290.3	29	1435	302.9	307	299	286.6
800	30	1951	294.6	301	290	285.7	30	1951	292.4	298	288	287.3	29	1968	298.7	302	295	283.1
700	30	3095	287.2	293	281	278.6	30	3087	286.0	291	282	279.3	29	3125	289.8	293	287	272.9
600	30	4379	279.5	285	273	271.8	30	4369	279.6	284	276	271.5	29	4415	279.9	284	274	264.1
500	30	5856	271.7	276	265	264.5	30	5845	272.5	276	268	268.4	29	5888	271.4	278	266	249.7
400	30	7606	262.4	267	253	..	30	7597	262.8	268	257	..	29	7635	261.4	273	253	..
300	28	9757	247.8	255	243	..	20	9763	249.5	253	242	..	28	9779	247.6	259	239	..
250	28	11058	238.1	246	231	..	17	11064	240.8	245	236	..	27	11087	239.8	246	230	..
200	28	12579	226.4	237	214	..	16	12609	228.7	238	222	..	27	12626	229.0	237	220	..
175	24	13483	221.4	233	211	..	9	13489	222.2	227	215	..	26	13508	223.0	234	216	..
150	21	14482	218.8	225	207	..	9	14470	215.2	220	208	..	25	14509	216.6	225	209	..
125	14	15651	206.7	218	196	..	9	15608	207.0	213	200	..	24	15644	208.4	216	197	..
100	8	17000	201.1	211	193	..	8	16909	199.7	207	195	..	21	17002	203.3	219	187	..
80	5	18418	199.6	206	191	..	..	..	..	..	..	..	19	18341	203.9	219	193	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 12 Hours G. M. T.

June 1958 (Jyaistha 11—Asadha 9, 1880 Saka)

Standard Pressure Surface mbs.	MADRAS Surf. Pr. (1000 mb.)							NAGPUR (963 mb.)							NEW DELHI (972 mb.)						
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A						
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			
Surface	30	15	306.5	309	301	296.5	30	311	309.0	316	298	291.9	30	210	312.0	317	303	289.1			
1000	30	13	...	...	...	...	30	-30	...	...	...	...	30	-50	...	..	..	..
900	30	958	301.4	305	297	290.2	30	927	304.9	312	297	287.5	30	912	307.1	313	298	284.6			
850	30	1463	297.3	301	293	288.5	30	1437	300.1	308	293	285.4	30	1424	302.8	308	295	281.6			
800	30	1990	292.8	297	289	286.1	30	1969	295.1	302	290	283.7	30	1959	298.4	305	291	280.2			
700	30	3127	285.2	291	282	278.5	29	3115	286.4	291	283	277.7	30	3111	289.0	293	282	273.5			
600	30	4401	277.1	281	274	272.0	27	4392	276.8	281	271	270.6	30	4396	278.8	282	273	260.3			
500	30	5863	268.8	271	265	..	23	5849	268.4	274	259	..	30	5863	270.1	275	263	..			
400	30	7590	258.6	263	254	..	22	7578	258.8	265	250	..	30	7599	260.0	267	252	..			
300	30	9709	244.2	249	238	..	15	9690	243.5	253	231	..	28	9734	245.7	253	236	..			
250	24	10986	233.9	240	227	..	12	11000	234.4	241	220	..	27	11022	237.4	243	228	..			
200	22	12470	220.9	227	215	..	8	12496	221.4	225	213	..	27	12544	228.1	233	221	..			
175	20	13317	213.1	221	203	..	5	13380	217.8	221	215	..	26	13422	221.7	227	218	..			
150	17	14277	206.1	214	198	..	5	14377	211.0	215	208	..	24	14411	215.3	224	212	..			
125	9	15458	203.2	205	199	..	..	..	..	..	..	..	24	15543	208.0	221	202	..
100	5	16716	197.2	208	191	..	..	..	..	..	..	..	22	16873	200.8	213	194	..
80	..	..	..	..	..	..	..	..	..	..	..	..	17	18164	200.0	208	191	..
		PORT BLAIR (996 mb.)							TRIVANDRUM (1000 mb.)							VERAVAL (1001 mb.)					
Surface	30	79	299.9	302	296	297.2	30	64	301.3	303	297	297.8	30	8	304.2	307	302	299.6			
1000	30	44	..	..	..	..	30	65	..	..	..	..	28	23	..	..	..	..
900	30	973	295.8	299	293	292.9	30	994	295.4	299	292	290.8	28	954	298.6	303	295	287.7			
850	30	1471	293.5	296	291	290.3	30	1490	292.3	296	289	287.2	28	1454	296.9	301	290	282.2			
800	30	1994	290.8	295	287	287.1	30	2017	289.7	293	285	284.1	28	1981	294.5	299	287	278.9			
700	30	3130	285.1	290	278	280.5	30	3137	284.2	289	281	275.8	28	3124	287.9	293	284	273.1			
600	30	4409	278.4	283	273	275.0	30	4407	276.9	281	271	267.3	28	4405	278.8	284	276	266.4			
500	30	5880	271.5	276	267	268.6	30	5865	268.7	273	261	..	28	5873	270.4	278	265	252.6			
400	29	7628	262.1	266	259	..	30	7591	257.9	264	253	..	28	7608	260.3	269	254	..			
300	27	9788	249.2	255	244	..	28	9701	243.3	249	237	..	28	9747	246.3	253	240	..			
250	21	11093	240.3	246	235	..	27	10979	233.6	241	227	..	24	11029	236.9	247	231	..			
200	20	12629	229.9	238	224	..	26	12471	222.8	232	215	..	21	12551	226.0	236	219	..			
175	14	13463	223.4	227	218	..	22	13352	217.2	225	211	..	19	13421	219.5	228	212	..			
150	10	14473	217.4	223	213	..	21	14327	210.9	221	202	..	17	14407	211.8	220	204	..			
125	5	15548	211.0	212	210	..	15	15442	207.3	213	198	..	14	15506	202.9	210	196	..			
100	5	16948	205.0	208	201	..	9	16792	199.3	205	193	..	12	16819	195.9	201	188	..			
80							7	18190	202.3	208	195	..	9	18075	199.7	206	194	..			

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 12 Hours G.M.T.

June 1958 (Jyaistha 11—Asadha 9, 1880 Saka)

Standard Pressure Surface mbs.	No. of Obs.	Ht. gpm.	VISAKHAPATNAM Surf. Pr. (993 mb.)					
			Temperature °A					
			Mean	Max.	Min.	Dew Point		
Surface	30	48	304.7	308	301	298.7		
1000	30	-11	...	..	..	...
900	30	930	300.9	306	296	291.4		
850	30	1434	298.1	303	293	288.5		
800	30	1963	294.6	301	290	285.4		
700	30	3103	286.3	291	283	279.4		
600	29	4378	277.4	280	275	272.9		
500	28	5835	267.7	272	263	..		
400	27	7558	257.8	262	251	..		
300	20	9680	243.7	251	237	..		
250	13	10959	233.2	243	225	..		
200	10	12461	222.8	235	213	..		
175	7	13349	218.1	229	210	..		
150	6	14342	210.7	223	202	..		
125	..	..	..	..	..	..
100	..	..	..	..	..	..
80	..	..	..	..	..	..

NOTE.—Number of observations refer to those of dynamic height.

Means are not worked out for temperature and dew point for the 1000 mb. surface and for dew point for standard pressure surfaces with temperature less than 273°A.

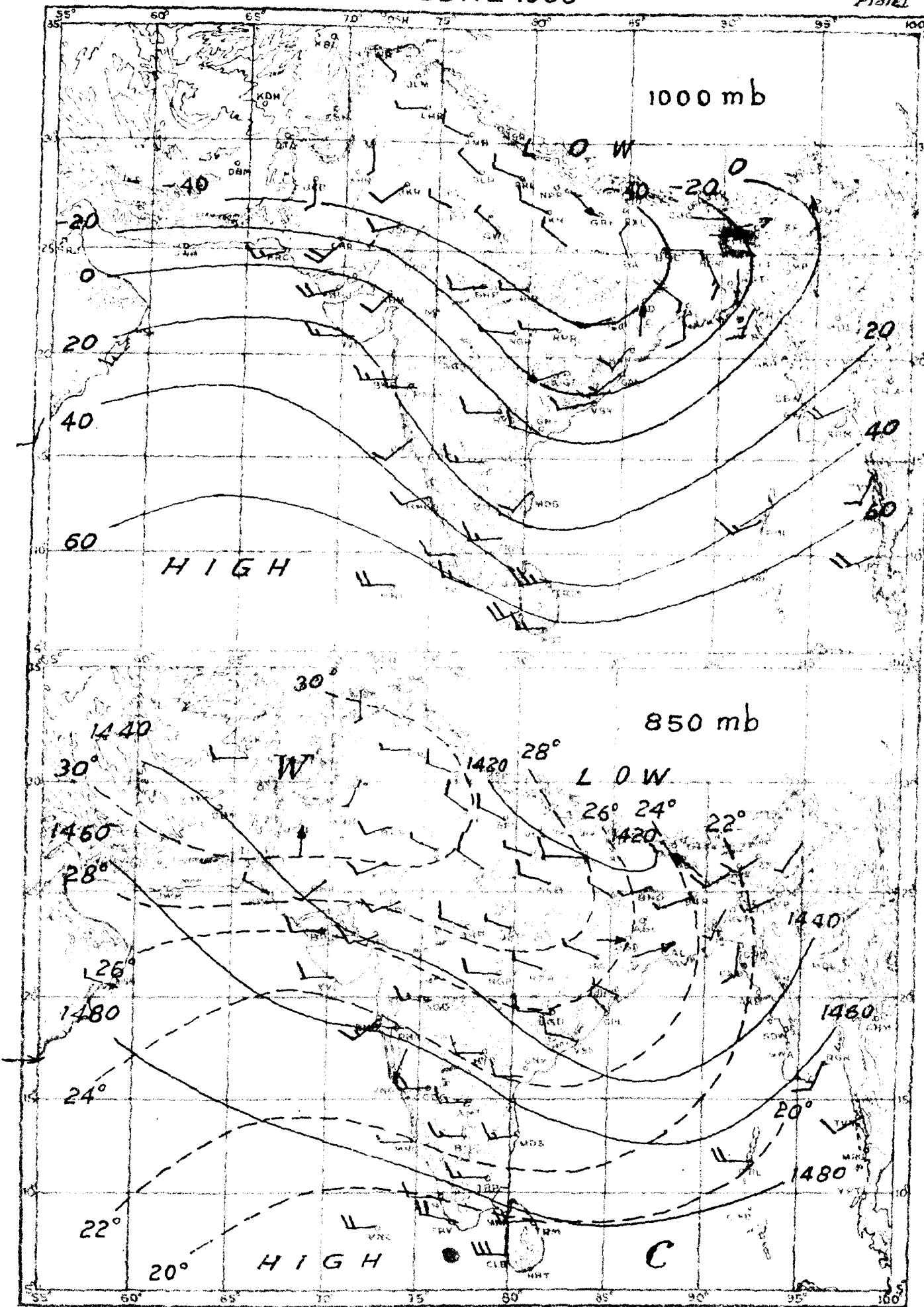
Means are not worked out for less than five observations at standard pressure surfaces.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I. Met. D.

JUNE 1958

plate I



RESULTANT WIND — 5 Knots, 10 Knots, 50 Knots.

----- Isotherms in degrees centigrade

Contours in deconvolution

Contours in geopotential metres.

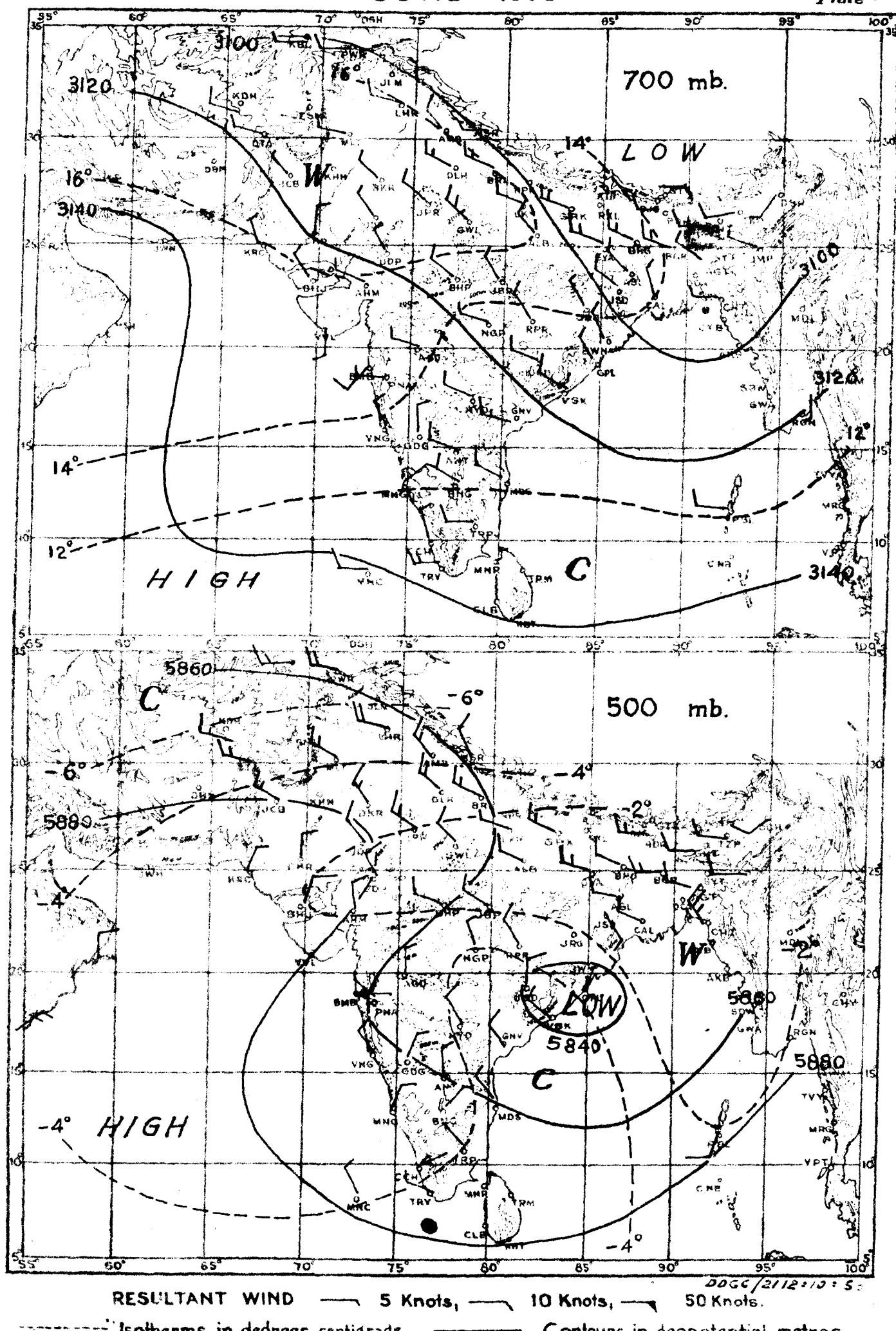
G.P.E.R. 2000/4, 1953

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D.

JUNE 1958

Plate II



RESULTANT WIND

5 Knots,

10 Knots

~~50 Knots~~

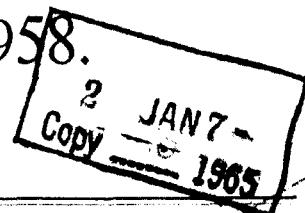
Isotherms in degrees centigrade

Contours in geopotential metres.

INDIA WEATHER REVIEW, 1958.

Monthly Weather Report

JULY



Published by authority of the Government of India

Chief features :

- (1) Development of three depressions—one in the Arabian Sea and the other two in the Bay of Bengal and
- (2) Vigorous monsoon conditions over the Deccan Ghats, during the third week of the month.

A depression formed in the east Arabian Sea off the Kathiawar coast with centre about 130 Kms to the south-west of Veraval on the morning of 1st July. It weakened and moved away north-westwards towards Mekran coast on 2nd. In association with it, local showers occurred in Saurashtra and Kutch and Gujarat on 1st and 2nd.

Conditions became unsettled in the northwest Bay of Bengal on 8th and a shallow depression formed on 9th with its centre at 0830 hrs. IST about 160 Kms to the south of Calcutta. It crossed coast near Balasore the same night, was situated over Chota Nagpur on 10th, over northwest Madhya Pradesh on 11th and merged into the seasonal trough by 12th. It was responsible for active monsoon conditions over most of the country during the second week of the month. Saurashtra and Kutch had a few heavy to very heavy falls, Bhavnagar reporting 15 cms on 10th, Dwarka 24 cms and Porbandar 23 cms on 11th.

Conditions again became unsettled in the northwest Bay of Bengal on 14th July and a shallow depression formed by 15th evening with centre close to coast between Balasore and Contai. It crossed the coast on 16th, moved to Chota Nagpur on 17th and merged in the seasonal trough by 18th. It caused vigorous monsoon conditions in Gangetic West Bengal, Chota Nagpur, Orissa and east Madhya Pradesh between 14th and 18th.

Monsoon was vigorous in and near the north Konkan on 19th when exceptionally heavy falls occurred over the Deccan Ghats. Khandala recorded 52 cms of rain, Lonavla 43 cms and Mahabaleshwar 38 cms on 19th, the latter being the highest fall on record for a single day for Mahabaleshwar.

Vigorous monsoon conditions also prevailed over Uttar Pradesh, Himachal Pradesh, the Punjab (I) and east Rajasthan on 20th and 21st. An all-time record rainfall of 27 cms was recorded at New Delhi on 21st and the subsequent floods associated with it paralysed the civic life of the country's capital for a few days.

Six western disturbances moved across the extreme north of the country as upper air troughs during the month and induced an incursion of the monsoon air into the Western Himalayas and neighbouring plains. The first caused the strengthening of monsoon in west Uttar Pradesh and its extension into the Punjab (I) on 4th. Under the influence of the second disturbance, the monsoon extended into Jammu and Kashmir on 7th. The passage of the third disturbance led to active monsoon conditions in the Punjab hills and Himachal Pradesh between 12th and 15th. Dharamsala reported 19 cms on 12th and 20 cms on 15th. The fourth disturbance caused strengthening of the monsoon in Jammu and Kashmir, Himachal Pradesh and the Punjab-Kumaon hills on 17th and 18th. The fifth moved across the north of the country between 24th and 27th and was associated with a few heavy to very heavy falls in northwest Uttar Pradesh, Himachal Pradesh and the Punjab hills. The sixth western disturbance caused locally heavy to very heavy falls of rain in the Punjab hills on 31st.

Total rainfall during the month was in large excess in coastal Andhra Pradesh, Telangana and north Mysore, in moderate excess in west Uttar Pradesh, the Punjab(I), Maharashtra and south Mysore, in slight excess in Bay Islands, Chota Nagpur, east Rajasthan, west Madhya Pradesh,

Saurashtra and Kutch, the Konkan and Rayalaseema and normal in Assam, Orissa and east Madhya Pradesh. It was in slight defect in Gangetic West Bengal, Jammu and Kashmir, Gujarat, coastal Mysore and Kerala and in moderate defect over the rest of the country outside the Arabian Sea Islands where it was in large defect.

Mean maximum temperature was above normal in Bihar and normal over the rest of the country outside east Rajasthan, Telangana, Rayalaseema and Interior Mysore where it was below normal. Mean minimum temperature was normal over the country outside the Arabian Sea Islands where it was above normal.

Mean relative humidity in the morning was above normal in the Punjab(I), east Rajasthan, Maharashtra and north Mysore and normal over the rest of the country outside Jammu and Kashmir where it was below normal.

Mean cloud amount in the morning was normal over the country outside the Punjab (I), the Madras State and north Mysore where it was above normal.

Normal data for Himachal Pradesh are absent.

Table I contains the divisional and sub-divisional means of rainfall, temperatures, humidity and cloud amount for the 14 chief political divisions and the 30 sub-divisions. The stations whose observations are used for preparing these means are given in the subsequent tables.

The highest maximum temperature given for any station in the accompanying tables is that recorded within the 24 hours ending at 0830 hrs. IST of the date noted in the succeeding column; similarly the heaviest fall in 24 hours for any station denotes the amount recorded during the 24 hours ending at 0830 hrs. IST of the date given in the succeeding column.

POONA 5,
The 18th August, 1960.

C. RAMASWAMY,
for Director General of Observatories.

Errata to M.W.R. for July 1958 (Asadha 10 - Sravana 9, 1880 Saka)

Page	Station	Hour	Col.	For	Read
------	---------	------	------	-----	------

Table I - Sub-division

339 7 Bihar 2 -946.2 -96.2

Table II

340	Port Blair	24	3	0
340	Malda	5	Blank	3,8
342	Agra	9	2,0	20
342	Mandi	11	807.7	817.7
343	Gwalior (P.B.O.)	7	...	0
343	Mandla	15	2	22
343	Raipur	11	737.7	737.6
344	Mahuva	17	30.4	30.4(b)
344	Dahanu	19	+2.1	+3.1
344	Malegaon	29	...	0
344	(Foot note)	-	(Not given)	(b) Mean of 29 days.
345	Kammameth	23	3	2
345	Nagapattinam	1	Nagapathnam	Nagapattinam
345	Vellore	19	16.6	+ 6.6
345	Honavar	19	0.6	-0.6
345	Belgaum (C.T.O.)	19	+ 2.3	- 2.3
345	Gadag	12	+ 26.3	- 26.3
345	Alleppey	10	93.5	93.6
346	Darjiling (Raj Bhawan)	10	172.0	172.9
346	Mukteswar(Kumaon)	1	Mukteswar(Kumson)	Mukteswar(Kumaon)
346	Nainital	13	17.0	87.0
346	Simla	8	+ 14.6	14.6
346	Pachmarhi	16	+ 1.5	+ 1.0
346	Mercara	10	551.9	551.3
346	(Foot note)	-	* Data not reliable	* Data not reliable
347	Bhimbkund	17	5.8 (f)	5.8 (j)
347	Gorkha	5	16	2,6
347	Katmandu	1	Katmandu	Katmandu*
347	Gangtok	28,29	.....	0,0
347	(Foot note)	-	(j) Mean of total of 21 days	(j) Mean of 21 days.

Table III

348	Long Island	1730	2	1750	1730
348	Port Blair	0530	1	Port Blals	Port Blair
348	Port Blair	1130	28	Blank	€
348	Port Blair	1730	28	0	1
348	Nancowry	0830	13	6.7	6.2
348	Digboi	1730	14,15	Blank	...,..
348	Dibrugarh	0230	15	..	3.0
	(Mohanbari Aerodrome)				
348	-do-	1130	11	82	81
348	-do-	2330	5	998.2	998.2
348	North Lakhimpur	1130	8	25.8	26.8
348	Golaghat	0830	1	Colaghat	Golaghat
348	Tezpur	0830	1	Tospur	Tezpur
348	Tezpur (P.B.O.)	1130	8	2.0	27.0
349	Gauhati (Bhorjor Aerodrome)	2330	5	994.9	994.4
349	Kailashar (C.W.O)	0530	1	Kalisasha (C.W.O)	Kailashar (

Page	Station	Hour	Col.	For	Read
349	Silchar	0830	12	6.1	6.1(a)
349	-do-	1730	12	6.0 (a)	6.0
349	Silchar (Kumbigram Aerodrome)	0830	4	1100.6	1000.6
349	Imphal	1130	24	5	4
349	Bagdogra	2330	2	2303	2330
350	Barrackpore	1130	26	;	0
350	Purulia	1730	15	..	5.0
350	Cuttack	1730	21,22	0,6	1,2
351	Bolangir	1730	20	1	3
351	Keonjhar	0830	4	996.2	999.2
351	Keonjhar	1730	4	993.9	996.9
351	Ranchi	0830	2	0840	0830
352	Gaya	2330	4	999.0	998.0
352	Bhagalpur	1730	27	2	5
352	Gonda	0830	15	-3.4	3.4
352	Banda	0830	18	2	0
352	Fatehpur	0830	13	0.2	-0.2
353	New Delhi	0530	26	8	0
354	Leh	0530	2	0530	*0530
355	Pilani	0830	9	28.5	23.5
355	Sikar	0830	4	998.9	998.2
359	Parbhani	0830	4	1003.1	1003.3
359	-do-	0830	5	956.1	956.3
359	-do-	1730	4	999.1	999.3
359	-do-	1730	5	952.9	953.1
361	(Foot note)	-	--	(c) Mean of 2 days	(c) Mean of 28 days.
363	Amini Divi	0830	1	Amini Divo*	Amini Divi*
363	Badrinath	0830	28	C	...
364	Batticaloa	1730	13	2.1	5.1
365	Bagra Tawa	1730	2	1730	1730
365	(Foot note)	-	-	♦ Data not available	♦ Data not available
366	Chainpur	0830	9	21.7	21.0

Page No.	Station	Time in I.S.T	Ht. in Km.	Entry under column	Existing entry	Correct entry
368	Santa Cruz	"		Ht. of anemometer	14	27
378	Minicoy	1730	7.2	D	.88	088
378	Musscoorie	1730	3.0	D	13	103
379	Nanpara	1730	4.5	D	13	153
379	Nanpara	0530	4.5	v	1.8	10.8
379	New Delhi	0530	1.5	v	3.	3.0
381	Udaipur	1730	3.6	D	5	005

RADIOSONDE DATA

390	Veraval	12	GMT	300 mb.	Min.Temperature	2 2	242
390	Veraval	12	GMT	250 mb.	Max.Temperature	2 8	248
390	Veraval	12	GMT	175 mb.	Min.Temperature	2 7	207
391	Visakhapatnam	12	GMT		Surface pressure	883	993

-○-○-○-○-○-○-○-○-○-

TABLE I.—DIVISIONAL AND SUB-DIVISIONAL MEANS—JULY, 1958 (ASADHA 10—SRAVANA 9, 1880 SAKA)

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity %	Cloud				Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity %	Cloud		
						0830 hrs. I.S.T.	1730 hrs. I.S.T.	0830 hrs. I.S.T.							0830 hrs. I.S.T.	1730 hrs. I.S.T.	0830 hrs. I.S.T.
1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9
Division																	
1. Assam (Including Manipur, Tripura).	366.1	93	32.9	25.7	86	78	6.9	5.7	8. Rajastan .	177.0	109	34.3	26.2	77	60	5.5	5.9
	-28.4	..	+0.9	+0.6	+1	..	+0.3	..		+15.3	..	-0.8	0	+5	..	+0.7	..
2. West Bengal .	307.4	75	32.4	26.3	85	81	6.3	5.7	9. Madhya Pradesh .	434.6	117	30.1	23.9	86	75	7.0	7.2
	-101.9	..	+0.5	+0.4	+2	..	-0.1	..		+63.8	..	-0.3	+0.1	+3	..	+1.6	-
3. Orissa . .	356.1	107	31.0	25.9	87	83	7.2	7.1	10. Bombay . .	443.8	114	30.5	24.6	86	75	6.9	6.9
	+22.5	..	-0.2	+0.2	+5	..	+1.1	..		+55.5	..	-0.3	+0.3	+4	..	+0.3	..
4. Bihar . .	279.3	86	32.9	26.1	81	76	6.5	6.4	11. Andhra Pradesh .	231.7	164	31.9	24.9	78	69	7.1	7.0
	-46.8	..	+1.1	+0.7	-1	..	+0.3	..		+90.2	..	-1.0	-0.1	+3	..	+3.9	..
5. Uttar Pradesh .	311.2	100	33.6	26.1	82	72	5.8	5.9	12. Madras State .	28.2	51	34.3	25.9	68	59	6.2	6.6
	-1.1	..	+0.1	-0.1	+2	..	+0.4	..		-27.6	..	-0.1	+0.8	0	..	+1.3	..
6. Punjab (India) (Including Himachal Pradesh and Delhi).*	254.3	131	35.3	26.8	78	65	5.6	5.5	13. Mysore . .	420.5	115	27.3	21.3	87	75	7.3	7.3
	+60.6	..	-0.7	0	+6	..	+1.2	..		+54.6	..	-0.9	+0.3	+5	..	+0.8	..
7. Jammu & Kashmir	109.3	88	28.7	16.9	61	48	4.2	3.6	14. Kerala . .	416.9	77	29.0	24.2	90	84	7.0	6.6
	-15.5	..	+0.6	+0.5	-8	..	+0.4	..		-121.1	..	+0.6	+0.8	+2	..	+0.1	..
Mean of India . (Excluding Jammu & Kashmir and Himachal Pradesh)																	
Sub-division																	
1. Bay Islands. .	477.3	122	29.3	24.1	85	87	7.3	7.5	15. Madhya Pradesh, (West).	427.7	125	30.4	23.9	86	74	6.9	7.2
	+85.4	..	+0.5	+0.2	+1	..	+0.7	..		+84.3	..	-0.5	-0.1	+3	..	+0.7	..
2. Assam (Including Manipur, Tripura).	366.1	93	32.9	25.7	86	78	6.9	5.7	16. Madhya Pradesh, (East).	443.5	109	29.7	23.9	86	78	7.1	7.2
	-28.4	..	+0.9	+0.6	+1	..	+0.3	..		+37.4	..	0	+0.4	+4	..	+0.5	..
3. Sub-Himalayan West Bengal.	405.2	64	31.9	25.9	84	77	6.3	5.5	17. Gujarat . .	270.1	84	31.6	25.6	87	75	7.1	6.9
	-227.0	..	+0.1	+0.3	-1	..	+0.8	..		-53.1	..	-0.2	+0.5	+2	..	+0.3	..
4. Gangetic West Bengal.	270.7	83	32.5	26.4	86	83	6.3	5.8	18. Saurashtra and Kutch.	239.5	119	32.5	26.3	83	73	6.3	6.4
	-54.9	..	+0.6	+0.4	+2	..	-0.4	..		+37.7	..	0	+0.4	+3	..	+0.1	..
5. Orissa . .	356.1	107	31.0	25.9	87	83	7.2	7.1	19. Konkan . .	848.0	120	29.2	25.1	89	85	7.4	7.3
	+22.5	..	-0.2	+0.2	+5	..	+1.1	..		+140.9	..	-0.2	+0.1	+4	..	+0.2	..
6. Chota Nagpur .	388.3	112	32.0	25.0	82	76	7.0	7.0	20. Maharashtra . .	436.4	134	29.1	22.5	84	71	6.7	7.0
	+42.0	..	+1.0	+0.4	0	..	+0.5	..		+111.6	..	-0.6	+0.5	+6	..	+0.2	..
7. Bihar . .	218.8	69	33.7	27.0	80	75	6.1	5.9	21. Vidarbha . .	233.0	73	31.0	24.0	85	73	7.4	7.3
	-946.2	..	+1.3	+0.9	-1	..	0	..		-85.2	..	-0.3	+0.1	+5	..	+1.1	..
8. Uttar Pradesh, (East.).	230.2	73	34.0	26.3	80	71	5.7	5.8	22. Coastal Andhra Pradesh.	210.2	163	32.6	25.9	78	70	7.1	7.1
	-86.4	..	+0.9	0	0	..	+0.2	..		+81.3	..	-0.9	-0.1	+2	..	+0.8	..
9. Uttar Pradesh, (West).	402.3	131	33.1	25.9	83	73	5.9	6.1	23. Telangana . .	398.4	186	29.8	22.9	82	70	6.8	7.0
	+94.9	..	-0.5	-0.1	+5	..	+0.6	..		+184.3	..	-1.1	-0.3	+5	..	+0.8	..
10. Punjab (India) (Including Delhi)	234.3	131	35.3	26.8	78	65	5.6	5.5	24. Rayalaseema . .	108.0	115	32.9	24.9	73	67	7.5	6.7
	+60.6	..	-0.7	0	+6	..	+1.2	..		+13.9	..	-1.3	+0.2	+4	..	+1.2	..
11. Himachal Pradesh	618.3	..	31.5	23.3	89	71	7.3	6.2	25. Madras State . .	28.2	51	31.3	25.9	68	59	6.2	6.6
	..	..	..	..	..	..	..	..		-27.6	..	-0.1	+0.8	0	..	+1.3	..
12. Jammu & Kashmir	109.3	88	28.7	16.9	61	48	4.2	3.6	26. Coastal Mysore	908.3	88	28.9	23.9	91	85	7.5	7.5
	-15.5	..	+0.6	+0.5	-8	..	+0.4	..		-119.3	..	+0.3	+0.3	+1	..	+0.5	..
13. Rajasthan, (West)	49.2	61	37.4	27.7	71	49	4.5	4.8	27. Mysore, (North) . .	321.7	154	27.7	21.3	87	74	7.5	7.5
	-31.8	..	+0.1	+0.5	+3	..	+0.5	..		+112.6	..	-1.2	+0.2	+6	..	+1.5	..
14. Rajasthan, (East)	279.2	123	31.7	25.0	82	70	6.3	6.7	28. Mysore (South) . .	291.7	134	26.3	20.3	86	73	6.9	7.0
	+53.0	..	-1.5	-0.4	+7	..	+0.9	..		+73.8	..	-1.1	+0.3	+5	..	+0.1	..
									29. Kerala . .	416.9	77	29.0	24.2	90	84	7.0	6.6
										-121.1	..	+0.6	+0.8	+2	..	+0.1	..
									30. Arabian Islands. Sea	102.8	39	30.5	26.2	81	75	6.4	6.8
										-159.7	..	+0.9	+1.1	-1	..	+0.7	..

Note.—The entries in the second line for each division and sub-division indicate departures from normal.

*Data of Himachal Pradesh not included.

340 TABLE II.—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—JULY, 1958 (ASADHA 10—SRAVANA 9, 1880 SAKA)

Division and station	Air temperature in °C									Rainfall in millimetres						No. of rainy days (2.5mm or more)		Wind speed, km. per hour		Weather phenomena—No. of days with															
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean 24 hours	Departure from normal	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall								
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29						
Bay Islands																																			
Maya Bandar	28.1	..	29.2	15	24.5	..	22.7	14	109.6	424.5	..	61.0	6	25	..	20.8	14.8	..	25	0	0	2	0	0	0	0	0	0	0						
Long Island	29.9	..	31.6	12	24.8	..	22.6	13	88.7	363.9	..	60.7	27	23	..	7.2	4.5	..	27	0	0	1	0	0	0	0	0	0	0						
Port Blair	29.3	+0.5	30.1	30	24.1	+0.2	21.1	23	207.6	477.3	+85.4	86.6	13	26	+5.5	24.6	19.5	+6.1	29	0	0	8	3	0	0	0	0	0	0						
Car Nicobar	31.0	..	31.2	9	25.0	..	22.0	29	141.4	382.0	..	80.6	12	16	..	8.2	6.2	..	22	0	0	0	0	0	0	0	0	0	0						
Nancowry	28.2	..	29.7	22	25.5	..	23.3	27	190.2	418.8	..	78.7	26	17	..	16.0	14.1	..	19	0	0	4	0	0	0	0	0	0	0	0					
Kondul	29.5	..	30.6	21	24.9	..	22.5	15	49.0	429.1	..	78.0	13	18	..	12.5	10.2	..	21	0	0	5	0	0	0	0	0	0	0	0					
Assam (Including Manipur, Tripura)																																			
Pasighat	32.0	..	36.2	17	24.3	..	22.8	3	173.3	494.7	..	93.2	6	17	..	4.5	3.9	..	20	0	0	6	0	0	0	0	0	0	0	0					
Digboi	32.1	..	36.9	17	24.8	..	23.3	6	88.8	453.4	..	97.0	22	20	..	..	..	..	23	0	0	3	0	0	0	0	0	0	0	0	
Dibrugarh	32.2	+1.5	36.8	17	24.8	+0.7	22.8	6	106.4	695.2	+158.7	182.0	13	20	-1.3	3.2	2.3	+0.7	25	0	0	11	0	0	0	0	0	0	0	0					
Dibrugarh (Mohanbari Aerodrome)	31.4	..	35.7	17	24.8	..	22.9	6	77.9	564.6	..	97.4	13	22	..	5.9	4.4	..	25	0	0	22	0	0	0	0	0	0	0	0					
North Lakhimpur	31.0	..	36.1	17	25.1	..	23.8	24	72.7	629.9	..	122.4	1	20	..	8.6	6.2	..	22	0	0	12	0	0	0	0	0	0	0	0					
Sibsagar	32.4	+0.6	(o) 36.2	17	25.7	+0.3	23.9	24	4.9	246.7	-210.2	44.0	11	17	-2.7	5.6	4.8	+1.3	24	0	0	0	0	0	0	0	0	0	0	0					
Jorhat	32.8	24.8	..	23.3	24	40.3	668.9	..	88.9	18	25	28	0	0	16	0	0	0	0	0	0	0	0	0				
Golaghat	32.6	..	36.7	17	25.5	..	23.9	24,25	19.8	334.7	..	72.4	23	18	..	..	..	..	20	0	0	0	0	0	0	0	0	0	0	0	
Gohpur	32.9	..	36.0	17,18	25.4	..	22.2	26	..	441.4	..	55.0	24	20	..	..	..	..	24	0	0	0	0	0	0	0	0	0	0	0	
Tezpur	33.1	+1.2	35.4	23	26.3	+1.0	22.4	6	47.0	160.7	-187.0	22.3	1	14	-2.9	6.0	4.0	+1.3	19	0	0	6	0	0	0	0	0	0	0	0					
Tezpur (P.B.O.)	32.6	..	35.3	18	26.1	..	24.3	24	33.3	144.1	..	25.1	14	13	..	5.0	2.9	..	17	0	0	11	0	0	0	0	0	0	0	0	0				
Majbat	68.6	259.8	..	39.0	10	15	..	7.3	4.5	..	22	0	0	13	0	0	0	0	0	0	0	0	0	0			
Chaparmukh	33.8	..	36.2	18	26.2	..	24.4	24	57.2	313.1	..	74.2	15	19	21	0	0	14	0	0	0	0	0	0	0	0	0	0			
Tangia	33.4	..	35.7	22	25.4	..	22.6	16	25.4	129.5	..	27.2	31	9	..	3.7	2.3	..	10	0	0	1	0	0	0	0	0	0	0	0	0	0			
Gauhati	33.4	+1.3	35.6	22	26.6	+0.9	24.3	25	109.2	267.7	-44.2	123.7	23	13	-2.3	4.2	3.1	+0.8	16	0	0	2	0	0	0	0	0	0	0	0	0				
Gauhati (Bhorjor Aerodrome)	32.4	..	33.9	12,20	25.9	..	21.9	6	173.7	299.7	..	67.4	25	16	..	8.0	5.3	..	23	0	0	19	0	0	0	0	0	0	0	0	0	0			
Rangiya	33.6	..	35.3	18,19	25.0	..	23.3	23	54.9	189.0	..	56.3	22	8	8	0	0	0	0	0	0	0	0	0	0	0	0	0			
Goalpara	33.1	..	34.8	16	24.5	..	22.1	30	44.5	247.1	..	42.6	22	11	..	5.6	3.2	..	11	0	0	0	0	0	0	0	0	0	0	0	0				
Dhubri	32.0	+2.0	34.4	5	26.8	+1.1	25.7	26	60.6	142.2	-294.4	31.8	23	12	-4.1	6.3	5.3	-0.7	12	0	0	1	0	0	0	0	0	0	0	0	0				
Dhubri (Rupnagar Aerodrome)	32.4	..	34.2	12	26.1	..	24.8	25,26	53.8	156.2	..	34.0	31	10	..	7.5	4.6	..	18	0	0	10	0	0	0	0	0	0	0	0	0	0			
Tura	30.0	..	32.2	8	24.4	..	23.4	25	50.5	178.5	..	35.1	24	15	..	7.4	6.2	..	19	0	0	0	0	0	0	0	0	0	0	0	0	0			
Agartala	32.3	..	34.8	15	25.1	..	22.2	28	74.0	203.4	..	34.6	15	12	..	10.7	8.7	..	24	0	0	10	0	0	0	0	0	0	0	0	0	0	0		
Kailashar (C.W.O.)	33.0	..	35.7	28	25.0	..	22.4	31	50.1	167.4	..	30.5	10	11	..	4.1	3.4	..	19	0	0	19	0	0	0	0	0	0	0	0	0	0	0		
Silchar	32.1	-0.2	36.7	22	25.4	+0.3	24.3	1,3	31.2	411.4	-109.8	59.2	6	25	+2.3	0.2	0.1	-2.6	28	0	0	13	0	0	0	0	0	0	0	0	0	0	0		
Silchar (Kumbhigram Aerodrome)	33.0	..	35.4	10	24.5	..	23.5	1	45.1	551.1	..	100.4	22	23	..	6.5	5.8	..	28	0	0	20	0	0	0	0	0	0	0	0	2	0	0		
Imphal	28.8	..	30.4	12	22.1	..	20.9	25	24.7	283.5	..	43.5	30	19	..	7.4	5.2	..	28	0	0	8	0	0	0	0	0	0	0	0	0	0	0		
Haflong	28.9	..	31.6	9	21.0	..	20.3	2,25	37.2	344.7	..	64.2	9	15	..	12.1	10.3	..	25	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	
Lumding	34.0	+1.1	37.6	1	25.1	+0.4	23.8	8	54.2	414.9	+222.1	97.2	15	16	+4.5	3.2	1.7	..	19	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	
Sub-Himalayan West Bengal																																			
Cooch Behar (C.W.O.)	32.3	..	33.7	22	25.7	..	24.2	31	81.9	377.9	-408.7	87.6	6	16	-4.5	7.8	5.1	..	22	0	0	18	1	0	0	0	0	0	0	0	0	1	0	0	0
Jalpaiguri	29.8	-1.6	31.8	12	25.1	-0.1	23.7	26	145.2	437.4	-381.0	38.2	2	25	+2.7	10.4	7.8	+4.6	26	0</td															

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—JULY, 1958 (ASADHA 10—SRAVANA 9, 1880 SAKA) 341

Division and station	Air temperature in °C								Rainfall in millimetres						No. of rainy days (2.5mm or more)	Wind speed km. per hour		Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total month in the	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.3mm. or more)	Snow or sleet	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall	Line squall		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Orissa—(contd.)																													
Balasore .	31.6	-0.1	34.0	8	26.3	+0.5	24.4	25	147.5	307.6	+7.9	56.4	23	14	-0.1	14.9 (b) (e)	9.8	+2.9	23	0	0	10	0	0	0	0	0	0	0
Ghambali .	30.3	-0.9	33.3	25	25.8	+0.2	23.3	16,26	91.8	238.5	-186.7	33.8	10	17	+0.2	14.5	11.8	+0.4	20	0	0	1	0	0	0	0	0	0	
Cuttack .	31.3	-0.6	36.2	8	25.7	0	23.3	16	81.2	259.6	-67.8	65.4	16	14	-1.9	9.5	7.7	+3.5	21	0	0	4	0	0	0	0	0	0	
Bhubaneswar .	31.0	..	34.7	8	25.6	..	23.4	16	255.6	555.2	..	144.4	9	16	..	19.7	14.5	..	20	0	0	10	0	0	0	0	0	0	
Puri .	30.9	+0.2	33.2	22	26.9	+0.3	23.6	16	130.8	523.0	+260.9	174.0	9	12	0	21.1	21.1	+2.9	21	0	0	6	0	0	0	0	0	0	
Gopalpur .	31.5	+0.6	34.8	29	26.4	+0.2	23.6	16	101.7	208.6	+26.7	58.0	16	11	+1.3	..	..	..	19	0	0	4	0	0	0	0	0	0
Koraput .	24.2	..	28.9	8	20.2	..	17.8	17	142.8	450.4	..	45.0	9	26	..	..	..	..	30	0	0	0	0	0	0	0	0	0
Titlagarh .	29.4	..	36.8	8	24.4	..	21.1	17	220.6	679.0	..	255.3	15	23	..	7.8	6.3	..	26	0	0	8	0	0	0	0	0	0	
Bolangir .	30.5	..	37.2	8	24.5	..	21.0	17	218.7	673.0	..	325.8	15	18	..	13.2	10.6	..	21	0	0	12	0	0	0	0	0	0	
Angul.	30.7	-0.5	35.2	8	25.3	+0.2	22.6	16	172.1	367.3	+50.6	65.5	10	13	-2.2	15.5	11.3	+3.3	18	0	0	6	0	0	0	0	0	0	
Keonjhar .	29.5	..	33.8	8	23.6	..	21.9	17	98.8	373.4	..	101.6	16	15	..	11.5	9.6	..	21	0	0	4	0	0	0	0	0	0	
Sambalpur .	30.4	-0.3	37.7	8	25.1	0	22.7	17	161.6	588.8	+66.6	119.4	10	24	+4.4	8.9	8.3	+2.0	26	0	0	6	0	0	0	0	0	0	
Jharsuguda .	31.3	..	37.0	8	25.0	..	22.4	16	93.5	369.8	..	111.3	10	18	..	13.2	10.4	..	25	0	0	10	0	0	0	0	0	0	
Chota Nagpur																													
Jamshedpur	32.4	+0.6	36.7	8	26.2	+0.3	24.8	14	90.0	338.0	+3.7	57.8	10	17	-0.4	10.6	8.5	+1.7	23	0	0	5	0	0	0	0	0	0	
Jamshedpur (P.B.O.)	32.6	..	36.8	8	25.8	..	22.2	11	117.5	307.4	..	69.6	10	17	..	4.2	3.3	..	20	0	0	17	0	0	0	0	0	0	
Ghaibasa .	32.3	+0.4	37.1	8	25.7	+0.4	23.3	21	104.5	345.8	+12.8	113.0	21	15	-1.2	4.7	3.3	-0.7	20	0	0	6	0	0	0	0	0	0	
Ranchi .	30.4	+1.3	34.7	9	22.8	-0.1	21.4	17	179.3	442.5	+50.1	133.5	23	20	+1.5	5.5	4.2	-3.8	21	0	0	0	0	0	0	0	0	0	
Ranchi (G.W.O.)	29.2	..	34.0	8	23.5	..	22.2	26,27	108.6	423.8	..	178.8	23	14	..	14.6	12.2	..	24	0	0	11	0	0	0	0	0	0	
Daltonganj .	34.2	+1.4	41.1	1	26.3	+0.7	23.9	24	126.4	533.6	+193.2	113.1	14	16	+0.4	9.7	6.5	+0.7	20	0	0	8	0	0	0	0	0	0	
Hazaribagh .	30.7	+1.1	36.3	8	23.8	+0.5	22.3	27	137.3	281.4	-49.6	59.2	23	15	-2.8	11.1	9.0	-0.8	20	0	0	15	0	0	0	0	0	0	
Dhanbad .	32.4	..	36.7	8	25.5	..	23.8	21,24	179.6	270.3	..	56.6	30	13	..	10.7	9.1	..	20	0	0	8	1	1	0	0	0	0	
Bihar																													
Purnea .	32.7	+0.7	34.6	7,15	26.5	+0.6	24.4	25	120.8	199.0	-164.7	39.4	25	12	-4.6	9.1	6.6	+2.4	14	0	0	8	0	0	0	0	0	0	
Forbesganj .	33.3	..	35.1	16,20,29	26.0	..	24.4	25	149.2	223.4	..	40.8	25	17	..	11.3	8.9	..	24	0	0	11	0	0	0	0	0	0	
Darbhanga .	33.4	+1.3	35.9	7,14,18	26.9	+0.6	25.0	26	140.8	193.1	-114.8	99.4	15	8	-5.9	10.9	9.1	+3.5	11	0	0	0	0	0	0	0	0	0	
Motihari (R)																													
Muzaffarpur*																													
Chapra	146.3	-160.3	64.3	15	10	-3.8	14
Arrah	172.4	-158.3	41.0	15	13	-1.5	13
Patna .	33.9	+1.3	38.1	6	27.4	+0.8	24.8	26	62.9	233.7	-60.4	140.0	11	8	-5.7	10.1	9.8	+2.9	13	0	0	2	0	1	0	0	0	0	
Patna (Aerodrome)	34.5	..	39.7	7	27.2	..	24.7	26	103.8	134.2	..	70.4	31	7	..	11.9	9.8	..	11	0	0	5	0	0	0	0	0	0	
Dehri .	34.0	..	41.4	7	27.1	..	24.6	23,26	84.6	317.2	+24.6	72.8	23	12	-2.2	9.5	6.1	..	13	0	0	7	0	0	0	0	0	0	
Gaya .	34.5	+1.1	41.6	6	27.4	+1.5	24.4	26	138.6	203.0	-132.5	46.6	26	12	-3.8	12.7	9.9	+0.7	15	0	0	11	0	0	0	0	0	0	
Jamui .	34.4	..	39.9	7	27.4	..	25.2	26	77.8	128.3	..	26.4	24	10	..	9.2	7.1	..	15	0	0	8	0	0	0	0	0	0	
Dumka .	33.1	+1.2	37.2	8	26.5	+0.9	24.8	18,29	269.1	360.5	+9.5	46.7	11	16	-2.0	8.4	10.0	+6.3	17	0	0	7	0	0	0	0	0	0	
Bhagalpur .	34.0	..	38.1	7	26.8	..	23.8	22	97.0	134.5	..	23.1	29	9	..	8.0	6.2	..	16	0	0	13	0	0	0	0	0	0	
Sabour .	34.3	+1.9	37.8	8	27.3	+1.0	25.0	11	73.7	143.9	-109.1	37.0	29	8	-7.1	14.0	11.5	+1.8	13	0	0	18	0	0	0	0	0	0	
Uttar Pradesh (East)																													
Gonda .	33.2	+0.3	38.9	7	24.7	-1.6	22.2	27	156.4	259.6	-113.0	60.0	16	12	-2.0	6.4	5.1	-0.9	12	0	0	0	0	0	0	0	0	0	
Nautanwa .	31.6	..	34.9	13	26.6	..	23.8	16	149.1	348.4	..	80.4	14	15	..	10.0	8.2	..	15	0	0	0	0	0	0	0	0	0	
Gorakhpur .	33.8	+1.1	38.1	7	25.7	-0.5	22.2	23	70.0	201.3	-144.9	47.0	31	10	-4.3	9.1	7.0	+3.3	13	0	0	0	0	0	0	0	0	0	
Azangarh .	33.4	..	40.8	7	26.8	..	23.0	15																					

342 TABLE II.—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—JULY, 1958 (ASADHA 10—SRAVANA 9, 1880 SAKA)

Division and station	Air temperature in °C								Rainfall in millimetres						No. of rainy days (2.5 mm. or more)	Wind speed, km. per hour			Weather phenomena—No. of days with													
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0630-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0630-1730 hours	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall						
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29				
Uttar Pradesh (West)—contd.																																
Agra	34.2	-0.1	42.0	6	26.5	-0.4	23.3	2.0	94.6	388.0	+170.8	91.0	4	15	+4.0	6.6	5.2	-1.9	17	0	0	1	0	0	0	0	0	0				
Agra (Aerodrome) (R)																																
Mainpuri	35.2	+0.1	41.8	4	27.1	+0.3	22.8	25	8.2	74.9	-116.6	42.0	31	5	-5.4	5.2	3.7	+0.2	15	0	0	0	0	0	0	0	0	0				
Aligarh	33.7	-0.9	40.8	4	26.3	-0.4	24.2	10	328.5	576.1	+353.3	146.3	21	18	+7.7	8.9	7.2	-0.2	22	0	0	3	0	0	0	0	0	0				
Bareilly	33.7	+0.3	38.9	7	26.7	+0.6	24.4	1.8	153.3	230.4	-78.8	75.0	8	11	-1.8	9.9	6.6	+3.1	16	0	0	4	0	0	0	0	0	0				
Meerut	33.1	-1.0	37.8	4	26.2	-0.2	23.9	21	..	187.6	-30.6	69.0	21	10	-0.3	..	6.4	..	10	0	0	0	0	0	0	0	0	0				
Najibabad	33.0	..	36.8	7	25.0	..	22.8	21	349.6	785.7	..	188.0	31	19	..	3.9	2.8	..	20	0	0	5	0	0	0	0	0	0				
Roorkee	32.7	-0.7	36.8	4	25.1	-0.5	21.9	22	128.8	586.7	+274.3	130.8	21	17	+5.1	7.4	5.6	+1.6	18	0	0	2	0	0	0	0	0	0				
Dehra Dun	29.8	-0.5	33.8	2	23.4	+0.2	21.5	15	255.4	822.0	+154.0	130.2	29	26	+5.7	3.0	2.1	-0.5	27	0	0	10	0	0	0	0	0	0				
Punjab (India) (including Delhi)																																
New Delhi	34.1	-1.0	38.7	3	26.6	-0.3	23.5	21	111.5	435.4	+256.8	266.2	21	14	+5.0	10.4	9.5	-0.8	17	0	0	8	0	0	0	0	0	3	0			
Hissar	37.6	0	42.0	4	27.5	+0.2	24.4	9	79.7	180.2	+71.5	101.9	9	6	0	10.5	9.3	+0.4	9	0	0	5	0	0	0	0	0	0	0			
Karnal	34.0	..	37.8	7	25.6	..	21.9	16	70.5	149.1	..	36.0	22	9	10	0	0	5	0	0	0	0	0	0	0			
Patiala	34.4	..	39.3	4	26.5	..	23.6	10	40.7	181.7	-61.6	52.9	7	9	+1.3	8.6	7.0	..	11	0	0	4	0	0	0	0	0	0	0			
Ambala	34.3	-1.0	39.5	2	26.4	+0.2	22.7	10	21.3	219.8	-24.3	50.8	10	11	+0.4	7.5	6.1	+1.1	12	0	0	0	0	0	0	0	0	0				
Ambala (Aero-drome)	33.5	..	37.9	2	25.9	..	23.0	10	33.7	208.3	..	50.2	10	11	20	0	0	14	0	0	0	0	0	0	0			
Chandigarh	33.6	..	38.6	4	25.0	..	21.1	8	72.3	272.5	..	66.0	8	11	13	0	0	0	0	0	0	0	0	0	0			
Ludhiana	35.4	-0.9	41.1	7	26.2	-0.6	18.6	21	43.3	135.4	-69.6	33.0	19	9	+0.6	1.2	1.3	-1.9	11	0	0	0	0	0	0	0	0	0	0			
Ferozepur	37.0	..	41.6	7	27.3	..	22.8	18	14.6	39.4	..	13.0	18	4	..	4.6	3.2	..	5	0	0	0	0	0	0	0	0	0	0			
Amritsar	35.3	..	39.9	7	26.6	..	22.8	18	99.1	190.9	..	58.0	27	6	..	12.6	11.1	..	6	0	0	7	0	1	0	0	0	0	0			
Pathankot	34.1	..	40.1	4	25.3	..	21.6	18	157.5	668.5	..	117.8	18	17	..	4.6	3.4	..	17	0	0	2	0	0	0	0	0	0	0			
Pathankot (Aero-drome)	34.0	..	40.4	4	25.7	..	21.7	8	149.6	690.6	..	122.7	26	17	..	10.0	9.0	..	17	0	0	19	0	1	0	0	0	0	0	0		
Himachal Pradesh																																
Bilaspur	32.1	..	36.7	7	24.2	..	21.8	31	171.2	418.8	..	75.4	17	19	..	5.6	4.6	..	21	0	0	7	0	0	0	0	0	0	0	0		
Mandi	30.8	..	35.3	7	22.3	..	20.3	31	187.4	807.7	..	103.4	10	22	..	4.6	2.4	..	26	0	0	9	0	0	0	0	0	0	0	0		
Jammu & Kashmir																																
Srinagar	31.7	+0.7	36.2	15	19.9	+2.0	15.1	17	3.5	37.7	-21.5	13.5	17	3	-1.9	5.8	5.0	+1.0	5	0	0	4	0	0	0	0	0	0	0	0		
Gulmarg	22.3	+0.8	26.7	15	10.8	-0.1	6.2	18	44.0	81.6	-21.5	30.0	17	5	-3.9	7.5	4.9	-0.2	10	0	0	6	0	0	0	0	0	0	0	0		
Sonamarg *	
Dras	
Kargil (R)																																
Leh	25.9	+1.2	30.7	14	11.3	+1.1	5.7	18	8.9	18.3	+6.4	11.4	18	3	+1.6	6.0	6.0	+2.9	3	0	0	0	0	0	0	0	0	0	0			
Shardu (R)																																
Gurez	279.4	+222.5	101.6	25	5	-0.9	5	
Gilgit (R)																																
Misgar (R)																																
Jammu	34.9	-0.3	40.1	4.8	25.5	-0.8	20.6	21	..	299.5	-25.4	81.2	12	12	+0.5	13	0	0	2	0	0	0	0	0	0	0	0	0	
Gund	51.6	..	23.0	17	4	5
Pandras	25.9	..	15.2	17	3	5
Panamik	1.0	..	1.0	17	0	1
Khangsal	20.6	..	7.6	18	4	4
Digar	..	..	..	..	..	..	..	..	..	20.1	..	18.3	17	1	..	..	..</td											

TABLE II.—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—JULY, 1958 (ASADHA 10—SRAVANA 9, 1880 SAKA)

Division and station	Air temperature in °C								Rainfall in millimetres						No. of rainy days(2.5mm. or more)		Wind speed, km. per hour		Weather phenomena—No. of days with												
	Mean maximum	from	Departure normal	Highest	Date	Mean minimum	from	Departure normal	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure normal	Heaviest fall in 24 hours	Date	Total fall in month	Departure normal	Mean between 0830-1730 hours	Precipitation (0.3mm. or more)	Snow or sleet	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall						
	1	2	3	4	5	6	7	8	Date	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
Rajasthan (East) —Contd.																															
Jaipur	32.2	-2.4	39.6	4	25.5	-0.2	23.4	26	92.8	178.4	--18.2	36.8	26	13	+2.7	10.6	7.7	-0.3	20	0	0	10	0	0	0	0	0	0	0		
Jaipur (Sanganer Aerodrome)	32.3	..	39.1	7	25.2	..	21.7	8	101.3	175.8	..	33.8	26	14	..	..	19	0	0	9	0	0	0	0	0	0	0	0	0	
Dholpur	34.0	..	41.3	2	26.8	..	24.3	23.27	182.1	336.3	..	66.5	26	16	..	10.0	8.0	..	19	0	0	7	0	0	0	0	0	0	0		
Ajme	31.3	-1.3	38.4	4	24.6	-1.2	22.2	8,921	132.4	228.4	+65.6	43.4	20	14	+5.1	13.7	12.1	+2.4	16	0	0	11	0	0	0	0	0	0	0		
Kotah	32.6	-1.8	41.0	3	26.0	-0.6	22.6	26	214.0	417.2	+159.6	88.4	10	14	+2.9	8.6	7.8	+1.4	17	0	0	8	0	0	0	0	0	0	0		
Chambal	31.3	..	38.5	3	24.5	..	21.2	27	204.8	419.4	..	93.7	26	19	..	10.4	7.2	..	22	0	0	9	0	0	0	0	0	0	0		
Jhalawar	31.5	-0.7	39.5	7	24.8	0	19.7	26	173.6	361.5	+65.8	105.4	26	18	+4.5	12.0	10.3	+2.4	23	0	0	6	0	0	0	0	0	0	0		
Udaipur	30.5	-1.3	36.2	3	24.3	0	21.6	3	104.4	208.4	-8.8	54.0	12	12	+1.6	6.5	5.6	..	18	0	0	9	0	0	0	0	0	0	0		
Eripura (Jawai Dam)	32.4	..	38.6	3,7	25.7	..	24.2	26	64.2	170.9	..	47.5	20	9	..	11.7	11.1	..	12	0	0	0	0	0	0	0	0	0	0		
Madhya Pradesh, (West)																															
Gwalior (P.B.O.)	33.2	-0.7	41.9	4	26.6	..	24.0	27	327.4	595.4	+295.9	119.4	26	15	+0.2	12.4	10.2	..	20	0	0	17	0	0	0	0	0	0	0		
Sheopur Kalan	32.3	..	40.6	4	25.7	..	22.6	26	242.2	431.2	..	134.2	26	16	..	11.5	8.1	..	19	0	0	7	0	0	0	0	0	0	0		
Guna	29.9	-1.2	37.9	3	23.7	-0.3	19.6	26	439.0	1012.1	+647.6	293.4	25	18	+2.5	18.2	14.0	..	19	0	0	10	0	0	0	0	0	0	0		
Rajgarh	31.2	..	38.7	7	24.2	..	19.7	26	283.0	550.0	..	73.0	26	16	..	19.3	14.7	..	16	0	0	0	0	0	0	0	0	0	0		
Neemuch	30.2	-0.9	36.7	3	23.8	+0.1	21.7	20,21	159.6	238.3	-2.2	80.1	9	14	+3.4	16.3	13.8	-0.4	19	0	0	3	0	0	0	0	0	0	0		
Ratlam	29.7	..	37.6	3	23.2	..	21.1	20	107.4	381.8	..	76.4	10	20	..	11.9	9.2	..	24	0	0	6	0	0	0	0	0	0	0		
Alirajpur	30.5	..	35.1	2	24.4	..	22.2	27	301.3	550.4	..	186.8	10	13	..	16.8	15.8	..	20	0	0	0	0	0	0	0	0	0	0		
Indore	29.3	-0.6	35.6	3	22.9	+0.4	21.6	20	97.5	262.1	-20.4	79.8	9	20	+6.7	28.7	25.4	..	26	0	0	7	0	0	0	0	0	0	0		
Bhopal (Bairagarh)	29.6	-0.2	36.4	3	23.3	-0.1	20.0	26	153.7	299.1	-202.0	56.8	11	14	-2.4	19.9	16.2	+0.1	21	0	0	5	0	0	0	0	0	0	0		
Khandwa	30.7	-0.4	36.1	3	24.3	+0.2	22.6	29	95.7	177.4	-68.0	32.0	18	14	+1.9	18.1	15.0	+3.1	19	0	0	0	0	0	0	0	0	0	0		
Hoshangabad	31.0	+0.9	38.7	3	24.7	+0.8	22.9	12,26	80.9	292.0	-132.4	54.8	8	15	-0.7	..	..	..	21	0	0	4	0	0	0	0	0	0	0	0
Betul	27.6	..	33.8	3	22.4	..	20.6	15	87.4	292.4	..	58.2	4	22	..	12.3	10.5	..	25	0	0	3	0	0	0	0	0	0	0	0	
Chhindwara	27.7	..	32.8	6	22.6	..	20.4	26	117.1	355.5	..	68.6	11	22	..	8.4	6.0	..	26	0	0	4	0	0	0	0	0	0	0	0	
Seoni	28.9	0	35.6	7	22.7	+0.3	20.7	26	124.1	405.5	-6.5	65.0	8	23	+4.7	10.3	7.3	+0.1	26	0	0	9	0	0	0	0	0	0	0	0	
Sagar	29.2	-0.7	37.3	3	22.8	0	19.3	27	173.5	574.6	+179.1	168.2	24	18	+1.5	14.7	12.8	..	20	0	0	7	1	0	0	0	0	0	0	0	
Nowrang	32.9	+0.1	41.7	4	24.8	-1.1	20.8	27	107.8	284.8	-66.0	47.6	22	20	+5.9	9.8	7.3	+2.3	21	0	0	10	0	0	0	0	0	0	0	0	
Madhya Pradesh, (East)																															
Sutna	31.9	+0.3	40.1	7	25.4	+0.2	21.4	26	173.2	289.2	-72.7	56.2	10	13	-2.4	9.2	6.9	-1.3	19	0	0	9	0	0	0	0	0	0	0	0	
Umaria	30.9	+0.6	39.6	7	24.2	+0.2	21.3	27,28	199.6	502.0	+51.1	72.5	11	20	-0.1	8.3	7.2	+1.1	24	0	0	4	0	0	0	0	0	0	0	0	
Jabalpur	30.1	-0.1	38.6	7	24.4	+0.7	21.3	26	213.2	412.6	-49.7	46.2	31	20	+1.9	6.9	4.6	-0.9	25	0	0	6	0	0	0	0	0	0	0	0	
Mandla	29.8	..	38.9	7	23.3	..	21.0	26	212.4	530.8	..	65.4	11	2	..	7.2	4.4	..	25	0	0	9	0	0	0	0	0	0	0	0	
Pendra	28.8	+0.2	36.7	7	23.3	+0.9	21.2	28	150.2	333.3	-40.3	50.8	13	18	-0.9	10.7	8.9	..	24	0	0	12	0	0	0	0	0	0	0	0	
Ambikapur	29.5	..	37.1	7	23.7	..	21.8	28	318.0	532.5	..	76.0	16	20	..	11.3	9.4	..	26	0	0	12	0	0	0	0	0	0	0	0	
Champa	31.0	..	39.0	8	25.2	..	22.4	16	196.9	522.2	..	84.4	14	17	..	13.0	11.6	..	21	0	0	8	0	0	0	0	0	0	0	0	
Raigarh	31.1	..	38.4	8	25.1	..	22.7	16	223.9	651.7	..	261.0	10	19	..	10.9	8.6	..	26	0	0	1	0	0	0	0	0	0	0	0	
Raipur	30.1	-0.3	37.7	7	24.3	+0.4	21.4	16	317.5	737.7	+356.9	185.1	15	16	0	15.2	13.1	-0.9	22	0	0	6	0	1	0	0	0	0	0	0	
Kanker	28.6	-0.3	34.4	7	23.7	+0.4	20.3	16	194.3	430.5	+31.2	104.1	15	18	+0.1	15.2	11.7	+2.0	21	0	0	8	0	0	0	0	0	0	0	0	
Jagdalpur (P.B.O.)	27.7	-0.6	31.1	7	22.2	0	18.3	17	132.1	369.4	-14.9	53.8	1	23	+3.6	9.5	7.9	..	30	0	0	7	0	0	0	0	0	0	0	0	
Gujarat																															
Deesa	33.8	..	38.6	6	25.9	..	23.1	10	65.8	147.5	..	39.6	10	8	..	16.1	13.3	..	12	0	0	3	0	0	0	0	0	0	0	0	0
Idar	31.8	..	37.6	5	22.9	..	20.4	20	158.1	532.2	..	307.0	9	13	..	12.7	9.9	..	17	0	0	2	0	0	0	0	0	0	0	0	0
Ahmedabad	33.0	-0.9	37.1	2	25.9	+0.2	22.6	11	52.1	154.4	-156.0	44.8	8	10	-2.6	11.6	10.1	-1.2	13	0	0	4	0	0	0	0	0	0	0	0	0
Dohad	30.0	-0.7	34.7	5	24.1	0	21.6	9	111.5	377.8	+148.7	230.3	9	10	-3.0	26.6	26.1	+11.6	19	0	0	4	0	0	0	0	0	0	0	0	0
Baroda	32.8	+0.7	36.8	5	26.0	+0.7	24.1	10	133.2	230.4	-80.2	114.7	9	13	+0.3																

TABLE II.—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—JULY, 1958 (ASADHA 10—SRAVANA 9, 1880 SAKA)

Division and station	Air temperature in °C								Rainfall in millimetres				No. of rainy days (2.5mm. or more)		Wind speed, km. per hour		Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (3mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
1																												
Saurashtra & Kutch—contd.																												
Jamnagar . .	32.8	+0.2	39.9	3	26.3	-0.2	23.8	11	156.4	230.0	+3.2	96.2	11	10	+2.1	..	..	..	15	0	0	7	0	0	0	0	0	0
Rajkot (Aerodrome)	32.7	-0.2	35.8	3,21	25.3	+0.6	22.8	11	112.2	200.4	-70.9	52.0	7	11	+0.5	43.5	35.1	+15.8	14	0	0	5	0	0	0	5	0	0
Surendranagar . .	34.5	..	38.8	5	26.8	..	24.1	10	58.0	100.8	..	59.0	11	6	..	25.5	23.6	..	8	0	0	0	0	0	0	0	0	0
Bhavnagar . .	33.7	-0.1	37.0	22	26.4	+0.6	24.1	10	96.5	230.5	+52.4	153.1	10	6	-3.3	21.1	18.3	+6.4	6	0	0	1	0	0	0	0	0	0
Bhavnagar (Aero-drome.)	33.6	..	37.1	22	26.8	..	24.4	10	..	207.5	..	130.6	10	5	..	..	28.8	..	9	0	0	4	0	0	0	0	0	0
Mahuva . .	30.9	..	33.4	16,23	25.7	..	23.5	11	99.4	126.1	..	46.4	11	9	..	30.4	23.8	..	16	0	0	0	0	0	0	0	0	0
Keshod . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	30.0	..	..	0	0	2	0	0	0	0	1	0	0
Veraval Konkan	29.8	..	33.8	1	26.7	..	22.7	10	110.0	321.6	+124.0	92.7	11	13	+3.8	32.3	33.8	..	20	0	0	0	0	0	0	2	0	0
Dahanu . .	29.5	-0.5	31.2	2,22,24	25.3	-0.4	22.7	11	346.3	995.2	+295.9	161.0	11	24	+2.0	32.2	29.7	+2.1	27	0	0	0	0	0	0	2	0	0
Bombay (Colaba)	29.8	+0.1	31.3	16,29	25.4	+0.6	23.3	5	247.7	830.3	+213.8	109.7	6	23	+0.9	19.3	18.9	+0.2	29	0	0	1	0	0	0	0	11	0
Bombay (Santacruz Aerodrome).	29.5	-0.2	30.8	27	25.1	+0.3	23.6	5	449.6	1097.1	+480.6	241.2	11	22	-0.1	27.4	25.1	..	29	0	0	2	0	0	0	0	3	0
Alibag . .	29.0	-0.1	30.2	26	25.2	-0.1	23.6	5	..	906.3	+310.9	162.9	7	22	-1.3	..	32.7	+4.2	28	0	0	0	0	0	0	0	0	0
Harnai . .	28.3	-0.7	29.0	27,29	24.8	+0.7	22.4	20	333.0	740.8	-114.7	103.0	7	26	-0.4	25.2	25.5	+5.5	30	0	0	0	0	0	0	0	0	0
Ratnagiri . .	28.7	..	29.8	29,31	24.7	..	22.4	4	252.1	689.7	-170.1	112.6	1	24	-2.0	..	..	..	30	0	0	0	0	0	0	2	0	0
Devgad . .	29.0	+0.1	30.8	30,31	25.0	-0.4	23.1	19	134.2	676.8	-30.1	100.2	1	27	+2.6	32.9	33.5	+4.0	29	0	0	1	0	0	0	0	0	0
Vengurla . .	29.1	..	30.5	30	24.5	..	23.2	12	268.8	803.4	..	126.9	2	26	..	13.8	12.2	..	29	0	0	4	0	0	0	0	0	0
Maharashtra																												
Nandurbar . .	30.6	..	36.9	2	24.6	..	22.9	9	207.4	372.8	..	167.5	9	16	..	14.3	13.0	..	19	0	0	4	0	0	0	0	0	0
Jalgaoon . .	31.7	..	36.5	3	24.2	..	23.0	18	128.6	244.7	+3.2	30.8	12	17	+2.7	26.3	18.8	..	23	0	0	0	0	0	0	0	0	0
Malegaon . .	30.7	-0.5	35.6	1	23.9	+0.8	22.3	11	45.0	97.5	-14.8	30.0	8	10	+2.6	20.5	16.9	+1.5	10	0	0	0	0	0	0	0	0	0
Deolali . .	27.2	..	32.5	2	22.3	..	21.1	19	133.9	395.2	..	85.1	10	13	..	25.9	22.7	..	22	0	0	1	0	0	0	0	0	0
Aurangabad . .	29.1	-0.9	33.4	1	22.2	+0.6	20.7	19	137.6	236.3	+65.1	47.8	19	13	+1.7	28.6	22.5	+4.8	21	0	0	2	1	0	0	0	0	0
Aurangabad (Chikalthana Aerodrome)	29.7	..	33.7	3	21.9	..	20.6	26	104.2	193.6	..	50.4	19	12	..	28.1	21.6	..	20	0	0	0	0	0	0	0	0	0
Khandala . .	..	..	..	..	..	..	..	..	..	2179.3	+441.4	516.4	19	30	0	..	..	..	31	..	..	..	..	..	..	..	..	..
Ahmednagar . .	28.9	-0.7	32.6	1	22.0	+0.6	20.9	19	60.1	137.4	+41.4	47.1	11	9	+2.2	15.4	11.1	-4.5	9	0	0	0	0	0	0	0	0	0
Parbhani . .	31.3	..	35.3	28	23.0	..	21.7	20	100.4	416.4	+230.5	121.4	5	14	+2.9	21.4	16.5	..	19	0	0	5	0	0	0	0	0	0
Poona . .	27.7	-0.4	30.3	3	22.3	+0.2	20.8	19,20	161.7	397.3	+230.7	130.4	19	13	+0.3	9.5	7.5	-8.9	26	0	0	0	0	0	0	0	0	0
Poona (Lohagaon Aerodrome)	27.5	..	30.0	27	21.7	..	20.6	20	118.4	314.1	..	103.6	11	11	..	..	..	..	22	0	0	0	0	0	0	0	0	0
Baramati . .	29.6	..	33.4	1	22.4	..	20.6	19	29.0	65.2	..	20.0	19	6	..	29.1	21.3	..	9	0	0	0	0	0	0	0	0	0
Jeur . .	30.6	..	33.9	2	21.6	..	20.1	29	67.1	139.6	..	20.5	19	12	..	25.7	17.9	..	16	0	0	0	0	0	0	0	0	0
Sholapur . .	31.1	-0.7	34.0	27	22.5	+0.2	21.2	19	43.9	83.6	-22.6	21.2	28	7	-0.7	18.6	14.0	-3.2	17	0	0	0	0	0	0	0	0	0
Miraj . .	27.3	-0.4	30.1	30	21.9	+0.3	21.1	19	51.7	134.7	+29.8	23.2	12	12	+2.9	26.0	19.0	+2.1	19	0	0	0	0	0	0	0	0	0
Kolhapur . .	25.9	-0.6	28.1	29,30, 31	21.4	+0.2	20.2	3	162.9	519.4	+166.1	65.0	12	24	+5.3	24.6	20.5	+1.8	27	0	0	0	0	0	0	0	0	0
Vidarbha																												
Buldhana . .	27.4	..	32.2	1	22.0	..	21.0	17,27, 31	116.4	244.1	..	57.0	6	11	..	15.5	15.0	..	18	0	0	0	0	0	0	0	0	0
Akola . .	31.6	-0.1	37.4	12	24.1	+0.3	21.8	18	35.7	162.9	-85.8	34.3	18	11	-1.4	19.5	14.4	+3.3	14	0	0	3	0	0	0	0	0	0
Amravati . .	30.5	-0.3	34.8	8	23.6	+0.3	22.0	12	54.1	159.0	-80.0	36.3	3	13	+0.2	21.6	17.0	+4.8	10	0	0	5	0	0	0	0	0	0
Yeotmal . .	29.8	..	33.3	31	23.0	..	21.6	3	81.0	256.7	..	45.2	3	15	..	25.8	21.8	..	22	0	0	3	0	0	0	0	0	0
Nagpur . .	30.8	-0.5	36.9	7	24.2	+0.1	22.8	16,26	47.6	247.0	-123.8	41.4	4	16	-0.5	21.7	16.2	..	25	0	0	6	0					

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—JULY, 1958 (ASADHA 10,—SRAVANA 9, 1880 SAKA) 345

Division and station	Air Temperature in °C								Rainfall in millimetres								No. of rainy days(2.5mm. or more)		Wind speed kms. per hour		Weather phenomena—No. of days with								
	Mean maximum	Departure from normal	Highest	Date	Mean Maximum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.3 mm. or more)	Snow or sheet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Telangana— (Contd.)																													
Bhadrachallam	31.4	..	35.2	27	24.4	..	22.9	29	80.0	348.2	..	68.0	4	17	..	14.3	10.0	..	21	0	0	0	0	0	0	0	0	0	
Khammameth	31.4	..	34.5	27	24.3	..	23.0	8	100.6	354.2	..	115.8	4	15	..	14.4	10.3	..	19	0	0	3	0	0	0	0	0	0	
Rayalaseema																													
Arogavaram	30.8	..	33.2	30	22.5	..	21.7	1,3	16.3	23.9	..	4.6	22	5	..	20.7	17.6	..	11	0	0	0	0	0	0	0	0	0	
Cuddapah	34.3	-1.0	37.2	26	26.1	+0.5	23.8	15	28.6	53.6	-49.8	25.8	3	5	+1.7	16.7	12.2	+0.3	11	0	0	0	0	0	0	0	0	0	
Anantapur	32.3	..	35.2	27	23.9	..	22.4	7	5.5	32.9	-33.9	18.8	7	3	-0.9	26.2	21.5	..	8	0	0	0	0	0	0	0	0	0	
Kurnool	31.6	-1.5	34.3	27	23.8	-0.1	22.4	19	124.9	237.6	+125.3	66.6	8	12	+2.7	20.4	13.3	-3.4	21	0	0	0	0	0	0	0	0	0	
Madras State																													
Palayamcottai	32.4	..	35.5	6	26.8	..	24.3	2	4.3	6.6	-1.8	4.3	3	1	+0.4	24.1	20.2	..	2	0	0	0	0	0	0	0	0	0	
Tuticorin	35.9	..	37.9	7,14, 31	26.4	..	25.1	20	5.0	5.0	..	4.0	11	1	22.3	19.3	..	2	0	0	0	0	0	0	0	0	0	0	
Pamban	29.5	-2.3	30.6	30	27.0	+0.7	26.0	11	0.3	0.6	-11.1	0.3	3,11	0	-0.8	15.6	15.1	-0.2	2	0	0	0	0	0	0	0	0	0	
Mathurai	37.3	+1.8	39.4	26	26.5	+1.3	23.2	13	0	0	-49.5	0	..	0	-2.7	9.8	8.1	+0.2	0	0	0	0	0	0	0	0	0	0	
Nagapathnam	36.2	+0.6	37.8	27	26.6	+0.5	23.8	2	37.6	43.2	0	33.2	2	3	+0.1	16.2	12.6	+2.9	4	0	0	0	0	0	0	0	0	0	
Tiruchirapalli	36.5	0	38.0	14	26.3	+0.6	24.4	20	0.8	0.8	-33.5	0.8	4	0	-2.1	38.3	34.0	+3.9	1	0	0	1	0	0	0	0	0	0	
Coimbatore (Peela-medu Aerodrome)	30.9	..	33.5	25	22.2	..	20.9	3	12.8	31.3	..	17.0	12	3	..	40.5	31.6	..	8	0	0	1	0	0	0	2	0	0	
Salem	33.8	-0.1	36.1	25,26	23.5	+0.2	22.1	19	70.2	85.4	-10.9	30.8	3	9	+1.9	9.9	9.4	+2.6	11	0	0	5	0	0	0	0	0	0	
Kallakurichi	36.3	..	38.7	26	25.9	..	21.9	14	41.6	53.2	..	27.4	28	4	..	14.0	11.6	..	7	0	0	3	0	0	0	0	0	0	
Cuddalore	36.7	+1.1	39.3	21	26.9	+1.0	23.7	28	0.7	27.1	-36.9	7.2	14	6	+0.7	4.3	8.2 (g) (a)	+0.8	6	0	0	1	0	0	0	0	0	0	
Vellore	35.0	+0.5	37.9	26	26.3	+1.2	23.8	1	7.0	20.4	-95.2	5.4	27	3	-3.3	18.9	14.6	16.6	10	0	0	1	0	0	0	0	0	0	
Madras	35.6	-0.1	38.1	26	27.0	+0.7	24.6	27	12.8	44.0	-47.4	9.7	23	7	+0.2	21.8	15.4	-0.4	16	0	0	0	0	0	0	4	0	0	
Madras (Nungambakkam)	35.3	..	37.8	14,18, 25	26.5	..	24.4	2,4	..	45.0	..	9.8	14	8	+1.2	..	7.6	..	17	0	0	2	0	0	0	0	0	0	0
Coastal Mysore																													
Karwar	28.2	..	30.0	28	23.6	..	21.7	2	260.6	845.8	-120.9	156.0	2	27	0	24.0	22.4	..	30	0	0	0	0	0	0	0	0	0	
Hanovar	28.4	+0.1	29.9	30	23.7	+0.1	22.1	15	239.8	999.3	-128.7	140.5	15	31	14.4	5.5	5.7	-0.6	31	0	0	2	0	0	0	0	0	0	
Mangalore	29.3	+0.6	31.2	11	24.0	-0.5	22.1	3	229.2	901.9	-86.2	142.6	15	27	-0.5	11.8	10.9	+1.9	30	0	0	2	0	0	0	0	0	0	
Mangalore (Bajpe Aerodrome)	28.5	..	30.2	10	23.2	..	21.2	18	243.5	1102.9	..	133.0	15	27	..	..	..	..	31	0	0	4	0	0	0	0	0	0
Mysore (North)																													
Bidar	28.5	-0.8	32.5	31	21.1	0	20.3	5,19	75.7	234.9	-428.9	79.6	5	18	+6.4	28.1	25.1	+2.9	22	0	0	0	0	0	0	0	1	0	
Gulbarga	30.5	-1.4	33.9	30	22.3	+0.1	21.7	5 days	53.6	150.6	+7.0	30.0	5	16	+6.9	26.9	21.0	+3.9	19	0	0	0	0	0	0	0	0	0	
Bijapur	29.2	-1.1	32.9	30	21.7	+0.1	16.8	4	38.8	83.0	+22.8	18.0	7	9	+4.7	19.1	15.8	+0.7	13	0	0	0	0	0	0	0	0	0	
Belgaum	23.9	-0.7	26.4	30	19.9	+0.2	19.1	16,17	695.4	801.9	+367.6	152.1	12	24	+1.9	11.6	10.1	+0.1	29	0	0	0	0	0	0	0	0	0	
Belgaum (G.T.O.)	..	..	..	..	20.0	+0.7	19.3	10,12, 22	318.0	810.4	+383.9	162.6	12	23	+0.9	14.0 (o)	12.0 (o)	+2.3	29	0	0	0	0	0	0	0	0	0
Belgaum (Sambre Aerodrome)	25.3	..	..	..	19.9	..	..	..	190.1	473.0	..	112.0	12	21	..	33.6	30.8	..	22	0	0	0	0	0	0	0	0	0
Gadag	27.5	-0.9	30.5	31	21.4	+0.3	20.6	17,19	22.4	47.1	+26.3	13.7	15	7	+0.1	24.4	20.1	+0.3	12	0	0	0	0	0	0	0	0	0	
Raichur	31.2	-1.2	34.5	27,30	22.9	+0.2	22.1	4,7,15	64.5	124.2	+4.8	24.8	15	13	+4.6	24.6	20.7	+5.3	18	0	0	0	0	0	0	0	0	0	
Mysore (South)																													
Bellary	30.5	-2.1	33.7	30	24.3	+0.4	21.7	24	24.2	40.0	-0.9	15.8	8	3	-0.4	18.5	14.2	+0.5	8	0	0	0	0	0	0	0	0	0	
Chitaldrug	26.6	-1.5	30.3	30	21.2	+0.7	20.4	15	33.8	59.0	-13.9	12.6	2	9	+0.8	16.3	15.3	+2.1	16	0	0	0	0	0	0	0	0	0	
Shimoga	26.4	..	28.9	30	21.6	..	20.1	15	159.4	340.5	..	75.5	15	21	..	9.8	7.1	..	23	0	0	0	0	0	0	0	0	0	
Belchonur	22.4	-0.4	26.7	21	18.7	+0.1	17.8	23	..	1282.4	+403.8	147.1	15	31	+2.7	..	..	..	31	0	0	0	0	0	0	0	2	0
Hassan	24.2	-1.1	26.3	29	19.2	+0.5	18.4	4 days	73.6	235.2	+87.9	41.0	15	16	+2.8	18.4	14.1	+2.8	26	0	0	0	0	0	0	0	0	0	
Mysore	27.1	-0.8	29.4	29,31	19.0	-0.6	18.3	4 days	26.6	53.0	-15.1	10.0	1	7	-0.3	21.5	15.1	+0.8	15	0	0	0	0	0	0	0	0	0	
Bangalore (Central Observatory)	26.9	-0.5	29.8	28	19.6	+0.9	18.8	23,25	55.6	80.7	-19.1	14.6	8	9	+1.0	22.5	17.8	+4.3	19	0	0	0	0	0	0	0	0	0	
Bangalore (Aero-drome)	27.5	..	30.6	26	19.6	..	18.9	1,23,25	39.3	57.9	..	9.2	18	9	..	..	..	..	16	0	0	0	0	0	0	0	1	0
Kerala																													
Kozhikode	28.7	+0.7	30.7	14	23.9	+0.5	22.1	12	223.5	763.8	-60.7	81.9	3	25	+1.5	11.2	10.8	+3.1	29	0	0	5	0	0	0	0	0	0	
Palghat	28.4	..	30.5	14	23.0	..	21.7	15,22	180.7	637.2	..	72.5	11	21	..	18.0	14.3	..											

***Data as of 11/10/2010. © 2010 JPMorgan Chase & Co.**

(c) Mean of 24 days

(g) Mean of 16 days.

346 TABLE III—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—JULY, 1958 (ASADHA 10—SRAVANA 9, 1880 SAKA)

Division and station	Air temperature in °C								Rainfall in millimetres						No. of rainy days (2-5mm or more)		Wind speed km. per hour		Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Height	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.3mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
Hill Stations excluding Kashmir																														
Walong (R)																														
Kohima . .	24.5	..	27.8	16	19.2	..	18.3	25,26 ²³	177.7	613.8	..	73.4	29	24	29	0	0	0	0	0	0	0	0	0	
Aijal . .	26.1	..	27.3	14	20.2	..	17.1	20	126.0	350.3	..	44.0	16	23	..	7.9	5.9	26	0	0	0	0	0	0	0	0	0	
Shillong . .	25.0	+0.9	26.4	22	18.7	+0.6	17.3	2	54.6	138.0	-208.7	27.7	15	13	-5.2	2.1	-1.1	-2.4	18	0	0	0	8	1	0	0	0	0		
Cherrapunji . .	23.0	+0.6	24.7	17	18.8	+0.3	18.0	5,24,25	139.0	975.0	-1472.0	155.0	24	30	+2.5	8.2	8.2	-0.3	30	0	0	0	0	0	0	0	0	0		
Mawsynaram	1392.3	..	217.5	31	26	26	0	0	0	0	0	0	0	0	0	
Darjiling (Raj Bhawan). .	19.6	0	21.9	23	15.6	+0.3	14.7	3	172.0	726.3	-109.9	117.9	25	26	+0.4	2.4	2.6	+0.3	29	0	0	0	31	0	0	0	0	0		
Kalimpong . .	24.5	+0.4	25.8	9 days	17.8	-1.8	15.6	5,17,25	93.9	474.9	-103.2	60.9	25	18	-3.9	6.4	4.6	-4.1	18	0	0	0	16	0	0	0	0	0		
Kathmandu (Hydromet)	28.0	..	30.1	12	20.1	..	18.2	8	42.9	246.2	..	40.6	29	21	..	2.8	1.6	..	29	0	0	0	13	0	0	0	0	0		
Mukteswar (Kumson).	20.4	-0.4	24.1	7	15.1	+0.7	13.2	1	151.8	273.8	-40.4	41.2	27	22	+4.2	10.3	11.7	+3.3	26	0	0	0	9	27	0	0	0	0		
Nainital . .	21.5	..	24.1	1	17.0	..	15.4	15	436.3	667.3	..	17.0	31	24	..	10.5	7.7	..	29	0	0	0	2	0	0	0	0	0		
Badrinath . .	17.2	..	20.0	15	11.6	..	10.0	8	..	183.7	..	121.4	4	12	19	0	0	0	0	0	0	0	0	0	
Lokpal . .	7.2	..	10.2	14	5.0	..	2.9	1,3	..	411.4	..	77.4	4	30	31	
Jamuna Chetty	190.7	..	25.4	7	20	25	0	
Mussooree . .	20.5	-0.2	23.3	12	16.2	+0.3	14.1	18	230.2	776.0	+78.5	94.4	19	26	+2.8	6.6	6.1	-0.7	28	0	0	0	10	19	0	0	0	0		
Kharsali	176.7	..	20.3	14	19	27	
Rana	90.2	..	11.2	7	13	28	
Simla . .	20.2	-1.4	25.1	12	15.9	+0.8	+14.6	21,31	207.8	602.4	+188.4	70.3	2	27	+7.3	3.0	2.8	+0.1	29	0	0	0	9	0	0	0	0	0		
Dharampore	454.0	+50.4	80.0	15	21	+3.3	24	
Kyelong	76.0	+43.0	21.6	17	9	+5.2	10	
Gondla	70.6	..	27.4	17	5	7	
Kothi	786.4	..	103.9	16	27	27	
Koksar	134.4	..	71.6	18	10	10	
Dalhousie . .	23.0	..	26.8	4,12	17.5	..	13.9	18	191.6	900.6	+343.8	155.0	25	22	+2.0	2.0	2.1	..	24	..	..	..	..	..	..	..	..	..
Dharamashala . .	27.2	..	31.5	2	20.2	..	17.3	18	496.1	1965.3	..	219.9	25	27	..	4.8	3.6	..	28	0	0	8	1	0	0	0	0	0		
Abu . .	23.6	-0.5	29.9	3	19.7	+0.8	18.2	14	148.7	565.8	+7.3	80.5	12	13	-4.8	14.1	15.0	+2.1	16	0	0	0	21	0	0	0	0	0		
Pachmarhi . .	24.6	-0.1	30.3	5	20.5	+0.6	18.1	26	297.6	691.3	+25.1	121.6	29	23	+1.5	14.6	14.6	+3.0	28	0	0	4	26	0	0	0	0	0		
Mahabaleshwar . .	18.8	+0.2	19.9	1	17.0	+0.2	15.6	30	1193.9	3246.9	+571.5	381.2	19	31	+0.9	23.9	24.0	+3.4	31	0	0	0	31	0	0	0	0	0		
Nandi Hills . .	20.7	..	23.3	27	15.8	..	14.8	10	..	113.1	..	15.7	2	12	..	..	30.7	..	12	0	0	0	29	0	0	0	0	0
Mercara . .	20.5	+0.1	22.6	21	17.2	+0.5	11.2	1	551.9	1425.5	+330.5	150.5	2	28	-0.5	19.4	19.2	+7.6	30	0	0	0	0	0	0	0	0	0		
Kodaikanal . .	17.3	+0.5	20.0	7	11.3	+0.1	10.5	20,24	23.3	59.6	-58.5	12.0	11	8	-2.2	22.0	23.7	+6.8	14	0	0	0	5	0	0	0	0	0		
Ootacamund . .	15.6	-1.0	17.8	8,29	9.7	-1.5	7.8	3	79.6	227.4	+15.1	34.0	2	14	-1.8	19.0	14.4	+4.7	0	21	0	0	0	0	0	0	0	0		
Coonoor . .	21.9	+0.3	23.6	26,29	16.0	+0.9	14.0	28	..	33.3	-33.0	12.5	12	4	-3.0	..	11.4	+3.5	9	0	0	0	0	0	0	1	0	0		
Sikkim																														
Thangu . .	..	..	..	..	..	..	..	..	..	93.3 (a) 350.9	..	12.7	12	13	..	..	..	..	24	..	..	..	..	..	..	..	..	..
Chungthang	
Lachen*																														
Tibet																														
Yatung (Chumbi)	19.8	+1.2	21.7	5 days	9.2	-1.5	6.4	23	..	70.9	-91.9	11.2	22	9	-8.7	..	..	..	19	0	0	0	0	0	0	0	0	0
Lhasa . .	24.5	..	28.3	1,14	9.9	..	6.1	9	..	145.8	..	24.0	21	13	..	..	2.7	..	14	0	0	0	0	0	0	0	0	0
Ceylon																														
Colombo . .	29.9	+0.2	30.9	19	26.2	+1.2	23.8	3	20.5	39.3	-87.4	15.0																		

TABLE III—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—JULY, 1958 (ASADHA 10—SRAVANA 9, 1880 SAKA) 347

Division and station	Air temperature in °C									Rainfall in millimetres				No. of rainy days (2.5 mm. or more)	Wind speed mm. per hour	Weather phenomena—No. of days with												
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.3 mm. or more)	Snow or sleet	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall	
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Hydrometeorological Observatories (Contd.)																												
Damodar Catchment																												
Chandwa	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Maithon	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Konar I	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mahanadi Catchment																												
Baramul	30.7	..	35.6	8	25.1	..	22.6	16	98.3	297.9	..	75.4	10	18	..	0.5	0.4	..	23	0	0	7	0	0	0	0	0	
Hirakud	30.9 (f)	..	38.2	8	25.3 (f)	..	22.9	17	191.6	584.4	..	178.8	10	19	..	9.2	7.8 (g)	..	29	0	0	10	0	0	0	0	0	
Khijrawan	29.1	..	33.6	6	24.0	..	22.6	28	77.0	166.1	..	25.3	28	16	..	14.3	8.4 (g)	..	20	0	0	14	0	0	0	0	0	
Sonepur	30.5	..	37.1	8	24.8	..	21.4	17	..	715.7	..	166.4	15	20	..	..	11.3 (j)	..	28	..	..	..	..	..	..	..	..
Ginabahar	30.9 (j)	..	37.2	17	23.8 (i)	..	18.1	12	..	464.4 (j)	..	61.0 (j)	9	24	..	..	.. (i)	..	24	..	..	..	..	..	..	..	..
Bhimkund	31.1	..	..	..	24.4	..	..	..	252.8	400.8	..	..	..	..	..	..	5.8 (j)	3.7 (j)	..	..	..	..	..	..	..	..	..
Narbada Catchment																												
Punasa	31.4	..	38.1	3	24.5	..	23.4	15	53.5	167.2	..	24.1	12	16	..	..	..	..	20	0	0	0	0	0	0	0	0
Bagra Tawa	30.8	..	37.8	3	24.4	..	22.2	26	0	298.3	..	55.9	28	17	..	..	..	..	20	0	0	0	0	0	0	0	0
Thikri	31.7	..	37.3	3	24.8	..	23.6	27	..	217.0	..	58.4	9	14	..	..	..	..	18	0	0	0	0	0	0	0	0
Sabarmati Catchment																												
Jhadol	29.9	..	36.4	1	23.6	..	21.1	20	..	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	0	0
Sainwara (Surajgarhi)	..	..	..	..	..	..	..	..	..	268.7	..	81.3	12	8	..	..	..	..	8	..	..	..	..	..	..	..	..
Bikrani	..	..	..	..	..	..	..	..	..	456.2	..	89.4	5	14	..	..	..	..	14	..	..	..	..	..	..	..	..
Tarpal	..	..	..	..	..	..	..	..	..	228.7	..	76.2	8	14	..	..	..	..	15	..	..	..	..	..	..	..	..
Kotra Cantonment	..	..	..	..	..	..	..	..	..	184.2	..	38.6	10	11	..	..	..	..	18	..	..	..	..	..	..	..	..
Dharoi	32.7	..	37.5	5	25.7	..	22.8	20	136.3	405.8	..	208.0	9	10	..	..	..	..	11	..	..	..	..	..	..	..	..
Ganga Catchment																												
Mukhlin	23.3	..	27.3	2	17.6	..	15.6	18	250.6	507.5	..	80.7	25	23	..	..	..	..	29	0	0	2	31	0	0	0	0
Tehri	32.9	..	37.4	9	23.8	..	21.6	18	67.2	215.8	..	41.6	15	15	..	..	..	..	18	0	0	5	0	0	0	0	0
Gandak Catchment																												
Gorkha	27.8	..	29.6	16	21.3	..	20.0	8	26.0	385.3	..	80.8	7	17	..	..	..	..	26	..	..	..	..	..	..	..	..
Pokhara	29.7 (j)	..	31.3	18	21.7	..	20.4	5	106.8	923.9	..	135.1	16	23	..	..	..	..	27	..	..	..	..	..	..	..	..
Nawakot	30.0 (b)	..	31.6	2,16	21.1	..	18.6	7	66.4	422.8	..	54.9	2	24	..	..	..	..	22	..	..	..	..	..	..	..	..
Jomosom	24.3	..	26.2	21	14.3	..	12.3	17	0	33.9	..	10.7	23	5	..	..	..	..	8	..	..	..	..	..	..	..	..
Timure	25.8	..	27.6	16	17.8	..	16.2	10,21	0	194.4	..	34.3	7	19	..	..	..	..	24	..	..	..	..	..	..	..	..
Gogra Catchment (Trans Himalayan Region)																												
Daiilekh	25.9	..	28.0	6	20.3	..	19.2	30	69.4	377.1	..	51.6	10	23	..	..	..	..	30	..	..	..	..	..	..	..	..
Gogra Catchment																												
Dendeldhura	23.3	..	26.0	2	17.2	..	13.7	10	151.2	411.9	..	63.5	4	25	..	..	..	..	28	..	..	..	..	..	..	..	..
Munsiyari	..	..	..	..	..	..	..	..	..	711.8	..	139.7	4	26	..	..	..	..	27	..	..	..	..	..	..	..	..
Sallyana (R)	..	(c)	32.8	..	36.7	12	25.5	..	22.4	288.6	778.5	..	228.6	14	22	25
Bagmati Catchment																												
Katmaunu	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kosi Catchment																												
Chautara	26.7	..	28.2	1,2,21	19.3	..	15.4	3	90.6	433.6	..	54.6	29	21	..	..	..	..	25	..	..	..	..	..	..	..	..
Okhaldunga	24.8	..	27.2	18	17.6	..	16.6	2,3	129.7	437.9	..	70.1	31	21	..	1.4	1.2	..	26	0	0	13	9	0	0	0	0	
Barahkshetra	31.9	..	33.9	20	25.1	..	24.1	25	271.0	502.5	..	154.4	2	20	..	6.9	4.1	..	26	0	0	8	0	0	0	0	0	
Angbung	29.3	..	31.1	21	21.0	..	19.4	6	..	209.2	..	27.4	12	21	..	..	..	..	24	..	..	..	..	..	..	..	..
Taplejung	24.9	..	26.8	1	..	..	..	..	58.1	295.9	..	34.1	2	21	..	..	..	..	28	0	0	0	13	0	0	0	0
Taplethok	29.1	..	31.2	16	18.5	..	17.3	16	..	719.3	..	52.1	29	30	..	..	..	..	31	..	..	..	..	..	..	..	..
Wallungchung Gola	16.5 (a)	..	18.7	7	10.1	..	8.9	1,8,21	..	429.9	..	32.3	8,31	30	..	..	..	..	30	..	..	..	..	..	..	..	..
Bhojpur	24.1	..	26.2	17	18.4	..	17.3	25	114.5	278.2	..	51.6	15	16	..	..	..	..	19	..	..	..	..	..	..	..	..
Chainpur	28.3	..	30.2	10,12, 21	20.3	..	1																					

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JULY, 1958 (ASADHA 10—SRAVANA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars		Mean temperature in °C			Vapour pressure in mb.	Relative humidity	Departure from normal	Cloud amount (Octas)	Wind speed (ms. p.h.)	No. of observations															
			At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Dry bulb	Wet bulb	Dew point						N	NE	E	SE	S	SW	W	NW	Calm	Variable						
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bay Islands																												
Maya Bandar	0830	23	1006.8	1004.2	..	27.6	25.8	24.6	31.8	85	..	5.3	..	8.9	0	1	25	0	0	0	0	0	26	0	0	5	0	
	1780	"	1005.1	1002.5	..	27.3	25.4	24.5	30.9	86	..	6.3	..	10.9	0	2	28	0	0	0	0	0	28	1	0	1	1	
Long Island	0830	33	1007.1	1003.4	..	28.0	26.0	25.3	31.9	85	..	7.2	..	1.9	0	0	20	0	0	0	0	0	18	2	0	11	0	
	1750	"	1005.6	1001.9	..	27.1	25.4	24.5	31.1	87	..	7.4	..	2.3	0	0	24	0	0	0	0	0	22	2	0	7	0	
Port Blair	0530	79	1006.6	997.7	..	25.9	24.8	24.3	31.5	91	..	7.5	..	14.1	0	6	25	0	0	0	0	0	2	22	7	0	0	0
	0830	"	1007.7	998.8	+0.3	27.6	25.7	24.9	31.3	85	+1	7.3	+0.7	16.3	0	8	21	0	0	0	0	0	24	5	0	2	0	
	1130	"	1007.0	998.1	..	28.2	25.6	24.5	31.0	81	..	7.3	..	23.4	0	14	17	0	0	0	0	0	0	27	4	0	0	0
	1730	"	1006.1	997.2	..	26.5	25.0	24.1	30.8	87	..	7.5	..	16.0	0	4	27	0	0	0	0	0	1	24	5	0	0	0
	2330	"	1007.3	998.4	..	25.7	24.6	24.2	29.9	92	..	6.9	..	13.3	0	4	27	0	0	0	0	0	1	24	5	1	0	0
Car Nicobar	0880	10	1008.9	1007.7	..	27.8	25.9	25.4	31.8	87	..	6.7	..	5.3	0	0	28	0	0	0	0	0	22	5	0	3	1	
	1730	"	1007.3	1006.1	..	27.3	25.5	24.8	30.8	87	..	6.7	..	4.1	0	0	25	0	0	0	0	0	20	4	0	6	1	
Nancowry	0830	26	1009.6	1006.7	..	27.5	25.5	24.6	31.1	83	..	6.7	..	18.3	0	12	19	0	0	0	0	0	0	27	4	0	0	0
	1730	"	1007.7	1004.8	..	26.9	24.9	23.9	31.1	84	..	6.2	..	14.7	0	5	26	0	0	0	0	0	0	30	1	0	0	0
Kondul	0830	8	1009.7	1008.8	..	27.5	25.7	24.9	31.6	86	..	5.6	..	9.4	0	1	26	0	0	0	14	13	0	0	0	4	0	
	1730	"	1007.8	1007.0	..	27.6	25.9	25.1	32.2	87	..	5.8	..	8.4	0	0	25	0	0	0	13	12	0	0	0	6	0	
Assam (including Manipur, Tripura, Pasighat)	0830	157	1002.2	984.7	..	27.3	25.4	24.5	31.0	86	..	6.7	..	3.5	0	0	19	2	0	4	3	1	0	0	9	12	0	
	1730	"	997.9	980.6	..	29.7	26.7	25.3	32.5	78	..	5.7	..	1.3	0	0	10	1	0	2	0	3	0	1	3	21	0	
Digboi	0830	"	"	"	..	27.5	25.6	25.0	32.4	85	..	7.5	..	..	0	0	31	0	0	0	0	4	20	4	3	0	0
	1730	"	"	"	..	30.4	26.7	25.2	32.2	74	..	6.0	..	0	0	31	1	0	0	0	4	13	10	3	0	0		
Dibrugarh	0830	106	1001.7	989.9	-0.7	27.4	25.8	25.2	32.0	88	+1	7.0	+0.4	2.4	0	0	21	5	4	7	1	2	1	0	1	10	0	
	1730	"	997.7	986.0	..	30.0	27.0	25.9	33.3	79	..	4.5	..	1.0	0	0	8	0	1	3	0	3	1	0	0	23	0	
Dibrugarh (Mohanbari Aerodrome)	0230	111	1000.1	987.6	..	25.9	25.2	25.0	31.9	94	..	7.0	..	..	0	0	12	0	3	3	3	0	1	1	19	0	
	0530	"	1001.2	988.5	..	25.5	24.8	24.5	31.0	94	..	7.2	..	2.6	0	0	16	0	6	4	2	1	2	0	1	15	0	
	0830	"	1002.0	989.6	..	27.5	25.7	25.0	31.4	87	..	7.4	..	3.0	0	0	17	10	5	1	0	1	0	0	0	14	0	
	1130	"	1000.7	988.3	..	29.5	26.7	25.6	32.7	82	..	6.8	..	4.2	0	0	22	3	8	4	1	0	1	3	2	9	0	
	1730	"	997.4	985.5	..	30.2	26.7	25.2	32.2	76	..	5.3	..	3.3	0	0	18	3	7	3	1	1	1	2	0	13	0	
North Lakhimpur	0830	2330	1000.4	998.2	..	26.8	25.7	25.3	31.9	91	..	6.3	..	3.3	0	0	14	0	6	0	3	2	1	0	2	17	0	
	1130	"	1000.4	989.1	..	29.6	25.8	25.7	32.9	81	..	6.3	..	7.1	0	0	30	1	8	5	8	1	4	0	3	1	0	
Sibsagar	0830	1730	97	1002.2	991.5	+0.1	27.8	26.2	25.6	32.7	88	+1	7.3	+0.1	3.9	0	0	28	9	8	2	1	3	3	0	2	3	0
	1730	"	998.4	988.1	..	31.0	27.3	25.7	33.2	75	..	5.2	..	2.8	0	0	20	3	5	2	2	1	3	2	2	11	0	
Jorhat	0530	0830	90	1000.3	990.2	..	25.9	25.5	25.3	32.4	97	..	6.9	..	4.0	0	0	14	0	1	1	1	6	4	1	0	17	0
	1130	"	1000.3	991.3	..	28.2	26.3	25.5	32.5	86	..	6.8	..	6.1	0	0	21	2	5	0	2	6	3	2	1	10	0	
Colaghat	0830	1730	"	1000.2	990.3	..	30.7	27.0	25.5	32.6	75	..	6.2	..	9.2	0	2	23	5	6	2	0	2	6	2	2	6	0
	1730	"	997.1	987.3	..	30.7	27.2	25.8	33.3	76	..	5.1	..	6.1	0	0	21	3	6	1	2	0	4	3	2	10	0	
Gohpur	0830	1730	"	1000.0	988.1	..	27.6	26.3	25.8	33.5	90	..	6.1	..	..	..	..	2	10	4	7	2	3	1	2	0	0
	1730	"	998.3	989.4	..	31.5	28.2	26.6	35.7	76	..	4.6	..	..	..	..	1	5	6	8	5	3	1	2	0	0	
Tospur	0830	1730	79	1002.1	993.3	-0.4	28.1	26.5	25.0	34.2	89	+3	7.1	+0.5	2.6	0	0	21	1	5	4	4	0	6	0	0	10	1
	1730	"	998.3	989.4	..	30.8	27.4	26.2	33.2	76	..	5.8	..	2.1	0	0	15	0	3	4	2	1	3	1	1	16	0	
Tezpur (P.B.O.)	0230	0530	78	1000.2	991.4	..	26.7	25.9	25.6	32.8	94	..	6.8	..	1.5	0	0	11	2	2	1	3	1	1	0	1	20	0
	0830	"	1000.7	991.9	..	26.4	25.8																					

TABLE III.—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JULY, 1958 (ASADHA 10—SRAVANA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.		Height of barometer cistern above mean sea level in meters.	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Octas)		Wind speed (kms.)		No. of observations																
	1	2		4	5	6	7	8	9	10	11	12	13	Mean amount	Departure from normal	Mean wind velocity kms. per hour.	20 to 61	62 or more	1 to 19	Wind direction													
																				N	NE	E	SE	S	SW	W	NW	Calm	Variable				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28					
Assam (Including Manipur, Tripura) (contd.)																																	
	Gauhati (Bhorjor Aerodrome) (contd.)	0530	54	1000.2	994.0	..	26.6	25.9	25.7	33.1	94	..	7.1	..	2.9	0	0	15	4	1	5	1	2	1	0	1	16	0					
		0830	"	1001.3	995.2	..	29.1	26.5	25.7	32.4	82	..	7.1	..	6.8	0	0	29	3	14	4	1	1	1	3	2	2	0	0				
		1130	"	1000.1	994.1	..	31.0	27.4	26.1	33.8	74	..	6.6	..	9.5	0	0	31	5	18	1	0	0	1	3	3	0	0					
		1730	"	998.0	991.9	..	29.3	26.8	25.8	34.0	82	..	6.6	..	3.8	0	0	22	1	3	2	3	5	6	1	1	9	0					
		2330	"	1000.6	994.9	..	27.2	26.5	26.2	34.1	93	..	6.4	..	2.6	0	0	15	0	2	1	2	5	5	0	0	16	0					
Rangiya		0830	"	"	"	..	29.0	26.7	25.1	32.9	82	..	5.7	..	..	..	..	2	2	7	5	3	3	3	5	0	0	0	
		1730	"	"	"	..	(b)	(b)	(b)	(b)	(b)	..	(a)	..	..	..	..	1	2	5	3	3	4	9	3	0	0	0	
Goalpara		0830	38	1000.6	996.3	..	28.0	26.4	25.5	33.1	85	..	6.8	..	3.0	0	0	24	0	2	3	6	5	3	3	2	7	0					
		1730	"	997.5	993.2	..	30.9	28.0	26.4	35.5	76	..	6.1	..	2.3	0	0	23	2	0	3	4	3	5	4	2	8	0					
Dhubri		0830	35	1001.7	997.8	+0.2	29.0	26.7	26.2	31.0	85	0	4.3	-1.7	3.0	0	0	19	0	9	1	1	0	0	12	0	0	0					
		1730	"	998.5	994.6	..	29.3	27.5	26.6	34.8	84	..	3.4	..	2.2	0	0	18	0	4	0	5	0	6	0	3	13	0					
Dhubri (Rupsi Aerodrome)		0530	"	"	"	..	26.6	25.8	25.5	32.7	91	..	7.2	..	4.4	0	0	20	1	5	8	1	4	1	0	0	11	0					
		0830	"	"	"	..	28.9	26.6	25.9	33.2	84	..	7.3	..	8.7	0	0	30	1	2	7	12	4	2	2	0	1	0					
		1130	"	"	"	..	30.7	27.2	25.8	33.1	75	..	7.1	..	11.1	0	1	30	0	3	6	7	9	4	1	1	0	0					
		1730	"	"	"	..	30.0	27.3	26.3	33.2	81	..	6.6	..	5.0	0	0	25	2	2	3	5	7	3	2	1	6	0					
		2330	"	1003.0	961.6	..	26.5	25.6	24.9	32.6	91	..	7.5	..	3.1	0	0	20	0	2	2	2	1	6	5	2	11	0					
Tura		0830	"	998.6	958.2	..	27.1	26.6	25.9	34.5	94	..	7.2	..	3.8	0	0	28	1	3	1	2	6	8	1	6	3	0					
	Agartala	0230	16	999.6	997.8	..	25.8	25.1	24.8	30.8	94	..	6.3	..	8.8	0	1	28	0	0	4	23	2	0	0	0	2	0					
		0530	"	999.8	998.0	..	25.6	24.7	24.4	30.5	93	..	6.5	..	8.5	0	1	30	0	0	6	24	1	0	0	0	0	0					
		0830	"	1000.7	998.9	..	28.8	26.2	25.1	32.2	81	..	6.5	..	11.1	0	0	29	0	0	3	23	3	0	0	0	0	2	0				
		1130	"	999.9	998.2	..	30.7	26.7	25.6	31.6	74	..	6.6	..	10.9	0	3	25	0	1	1	19	7	0	0	0	0	3	0				
Kalisaha (C.W.O.)		0830	29	1001.1	998.7	..	26.3	25.5	25.1	31.6	93	..	6.4	..	9.0	0	1	27	0	2	2	20	4	0	0	0	0	3	0				
		0830	"	1001.9	998.7	..	28.7	26.3	25.3	33.4	82	..	6.3	..	4.2	0	0	15	2	2	0	9	1	1	0	0	0	28	0				
		1130	"	1001.7	998.5	..	30.8	26.7	24.7	31.5	71	..	6.7	..	6.1	0	1	19	3	2	2	4	5	3	0	1	11	0					
		1730	"	999.6	996.8	..	29.5	27.1	26.1	34.3	82	..	6.9	..	3.6	0	1	12	2	0	2	2	4	0	1	2	18	0					
		2330	"	1002.1	998.8	+0.8	28.9	26.5	25.4	32.7	82	-3	6.1	-0.1	0	0	0	0	0	0	0	0	0	0	0	0	31	0					
Silchar (Kumbhigram Aerodrome)		0830	"	998.7	995.4	..	30.2	26.9	25.7	32.7	70	..	6.0	..	0.4	0	0	2	0	0	0	0	0	0	0	0	0	29	0				
		0530	97	1000.1	989.2	..	24.9	24.6	24.4	30.7	98	..	6.9	..	4.2	0	0	22	0	7	13	1	1	0	0	0	9	0					
		0830	"	1100.6	989.8	..	28.1	26.0	25.1	31.9	84	..	6.5	..	4.3	0	0	25	0	3	14	3	1	4	0	0	6	0					
		1130	"	999.4	988.7	..	31.0	27.0	25.4	32.4	72	..	5.2	..	7.5	0	0	31	0	1	6	1	1	8	11	3	0						
		1730	"	997.3	986.6	..	29.0	26.4	25.4	32.3	82	..	5.7	..	6.2	0	1	25	0	0	3	2	2	9	7	3	5	0					
Imphal		0530	801	1002.7	915.6	..	22.8	22.1	21.8	26.1	93	..	7.7	..	1.7	0	0	12	0	2	2	0	5	2	0	1	19	0					
		0830	"	1002.6	916.4	..	25.3	22.9	21.9	26.1	82	..	7.3	..	2.9	0	0	22	1	3	8	4	3	2	0	1	9	0					
		1130	"	1001.1	915.4	..	27.2	23.5	21.9	26.2	73	..	6.9	..	9.6	0	3	26	0	3	4	4	7	5	3	4	2	0					
		1730	"	999.1	913.3	..	26.3	23.4	22.0	26.6	78	..	6.8	..	6.1	0	0	24	1	1	3	3	4	8	2	2	7	0					
		2330	"	1002.3	915.6	..	23.8	22.7	22.2	26.8	91	..	7.6	..	2.3	0	0	13	0	3	5	0	1	1	0	3	18	0					
Haflong		0830	682	1001.8	927.5	..	24.3	22.6	21.9	26.1	86	..	5.9	..	9.5	0	0	31	0	4	0	0	8	19	0	0	0	0					
		1730	"	997.9	924.3	..	26.2	23.2	21.8	25.9	77	..	5.9	..	10.5	0	0	31	1	2	0	1	7	18	0	2	0	0					
Lumding		0830	149	1001.6	985.1	..	28.6	26.4																									

TABLE III.—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JULY, 1958 (ASADHA 10—SAVANA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars.			Mean temperature in °C			Vapour pressure in mbs.			Relative humidity %			Cloud amount (Oktas)			Wind speed (kms.)			No. of observations										
			At mean sea level or height in g.p.m. of nearest standard isobaric level			At station level			Departure from normal			Departure from normal			Mean amount			Departure from normal			Mean wind velocity kms. per hour			N	NE	E	SE	S	SW	W	NW	Calm	Variable
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28			
Gangetic West Bengal—(Contd.) Dum dum—(Contd.)	0830	6	998.9	998.2	..	29.2	27.0	26.1	35.1	84	..	6.9	..	8.7	0	1	26	0	4	6	9	4	4	0	0	4	0				
	1130	“	998.5	997.8	..	30.6	27.5	26.3	34.2	78	..	7.0	..	9.7	0	0	31	0	3	4	8	9	4	3	0	0	0				
	1730	“	996.4	995.7	..	29.8	27.2	26.2	34.8	81	..	6.5	..	8.7	0	0	29	0	1	3	9	12	4	0	0	2	0				
	2330	“	998.9	998.2	..	27.3	26.4	26.0	33.6	93	..	5.6	..	6.1	0	0	28	1	2	2	11	10	2	0	0	3	0				
Calcutta . .	0830	6	998.8	998.1	-1.2	29.0	26.8	25.8	33.4	84	+1	7.0	0	5.3	0	0	25	0	3	4	6	3	8	1	0	6	0				
	1130	“	998.3	997.6	..	30.7	27.4	26.0	33.8	76	..	7.0	..	8.0	0	1	27	0	2	5	9	5	4	2	1	3	0				
Barrackpore . .	0530	7	998.0	997.2	..	26.4	26.0	25.8	33.4	97	..	6.1	..	5.0	0	0	23	0	3	7	8	2	3	0	0	8	0				
	0830	“	999.1	998.4	..	28.9	27.0	26.1	34.4	85	..	7.9	..	9.0	0	0	28	0	0	9	10	5	1	3	0	3	0				
	1130	“	998.5	997.8	..	30.5	27.6	26.5	34.5	80	..	6.8	..	11.6	0	0	28	0	0	4	13	2	7	2	; 3	0	0				
	1730	“	996.1	995.4	..	29.6	27.3	26.3	34.3	83	..	6.5	..	8.8	0	0	25	0	0	3	12	6	3	1	0	6	0				
Saugor Island . .	0830	3	998.4	998.1	-1.4	28.8	27.7	27.4	36.2	92	+10	6.5	-0.5	24.1	0	19	12	0	1	1	7	7	12	3	0	0	0	0			
	1730	“	996.3	996.0	..	29.8	28.0	27.5	36.3	89	..	6.0	..	26.4	0	25	6	0	0	0	6	13	12	0	0	0	0	0			
	0530	10	997.2	996.1	..	28.4	26.6	26.0	33.0	86	..	7.0	0	20	11	0	0	1	2	4	17	6	1	0	0	0			
	0830	“	998.3	997.2	-1.6	28.9	26.8	25.9	34.3	83	+1	6.9	+0.7	..	0	16	15	0	0	0	3	4	17	5	2	0	0	0			
Sandheads . .	0830	“	998.4	997.3	..	29.4	26.8	25.8	33.5	82	..	6.9	0	18	13	0	1	0	4	5	16	4	1	0	0	0			
	1130	“	996.3	995.2	..	29.3	26.8	25.8	33.3	82	..	6.6	0	20	11	0	1	0	4	4	19	2	1	0	0	0			
	1730	“	998.3	997.2	..	28.6	26.8	26.1	34.2	86	..	5.4	1	21	9	0	0	0	2	7	21	1	0	0	0	0			
	2330	“	999.0	997.8	..	29.3	26.9	25.8	33.5	83	..	6.4	..	6.8	0	2	23	2	0	1	6	4	9	3	0	6	0				
Contai . .	0830	11	996.3	995.1	..	28.9	27.6	26.2	35.8	85	..	6.2	..	8.4	0	1	28	1	0	0	5	11	11	1	0	2	0				
	1730	“	996.3	995.1	..	28.9	27.6	26.2	35.8	82	..	5.9	+0.1	4.8	0	0	24	0	6	1	4	8	4	0	1	7	0				
Midnapore . .	0830	45	998.6	993.5	-1.3	29.0	26.6	25.6	32.8	82	0	5.9	+0.1	4.2	0	0	26	1	0	4	4	12	5	0	0	5	0				
	1730	“	995.8	990.8	..	29.6	26.7	25.5	32.6	79	..	4.9	..	5.2	0	0	29	2	4	0	7	10	4	1	2	0	0				
Purulia . .	0830	255	999.5	971.5	..	28.0	25.6	24.6	30.6	82	..	6.7	..	5.1	0	0	28	5	3	1	9	5	2	0	3	3	0				
	1730	“	995.6	967.8	..	29.7	26.2	24.7	30.9	76	..	7.0	..	..	0	0	29	2	4	0	7	10	4	1	2	0	0		
Burdwani . .	0830	32	999.1	995.5	-0.8	29.5	27.8	27.0	36.1	87	+3	4.7	-1.9	2.6	0	0	14	2	0	1	3	3	4	1	0	17	0				
	1730	“	996.4	992.8	..	30.3	28.2	27.5	36.1	86	..	4.5	..	3.5	0	0	16	4	0	2	4	3	2	1	0	15	0				
Krishnagar . .	0830	15	999.4	997.8	-0.8	29.4	27.1	26.4	33.5	84	+1	5.5	-1.1	2.7	0	0	26	0	0	17	5	4	0	0	0	5	0				
	1730	“	996.7	995.1	..	29.8	27.1	26.3	33.4	83	..	4.8	..	2.7	0	0	28	0	0	21	0	7	0	0	0	3	0				
Asansol . .	0230	126	997.3	983.3	..	27.0	26.5	26.1	34.3	95	..	5.6	..	4.7	0	0	22	0	2	5	11	1	1	1	9	0	0				
	0530	“	997.6	983.5	..	26.6	26.2	26.0	33.7	97	..	6.2	..	4.2	0	0	18	0	0	5	10	2	1	0	0	13	0				
	0830	“	998.6	984.7	-0.2	29.3	27.1	26.2	34.0	83	-2	6.4	-0.4	6.4	0	0	26	0	4	7	10	3	1	1	0	5	0				
	1130	“	997.9	984.0	..	31.3	27.8	26.4	34.5	76	..	6.6	..	6.9	0	0	28	0	1	9	13	1	2	1	1	3	0				
Suri . .	0830	77	999.2	990.6	..	29.2	26.5	25.4	32.3	81	..	6.2	..	9.5	0	1	29	0	7	11	7	2	1	1	1	0	0				
	1730	“	996.9	988.4	..	30.1	26.7	25.0	32.5	75	..	6.7	..	9.3	0	0	29	1	4	11	8	2	1	1	2	0	0				
Berhampore . .	0830	19	999.1	997.0	-1.0	28.7	26.9	26.2	34.3	87	+3	7.8	+1.1	4.3	0	0	25	0	0	12	4	9	0	0	0	6	0				
	1730	“	995.9	993.8	..	30.1	27.2	26.2	34.0	80	..	6.7	..	4.1	0	0	27	0	0	10	3	13	1	0	0	4	0				
Orissa Baripada . .	0830	54	999.0	992.9	..	28.0	26.3	25.7	33.1	87	..	7.1	..	1.2	0	0	23	1	1	0	10	2	6	1	2	8	0				
	1730	“	996.0	990.0	..	29.0	26.9	25.9	34.3	83	..	6.8	..	3.4	0	0	23	1	1	0	10	2	6	1	2	8	0				
Balasore . .	0830	20	998.2	996.0	-2.1	28.2	26.3	25.5	32.5	85	+3	7.7	+1.8	7.7	0	1	27	2	2	1	3	7	10	1	2	3	0				
	1730	“	996.0	993.8	..	29.4	26.7	25.6	32.7	80	..	7.1	..	1.0	0	0	27	0	0	6	5	14	1	2	3	0	0				
Chandbali . .	0830	6	999.1	996.4	-0.8	27.9	26.4	26.1	33.2</																						

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JULY, 1958 (ASADHA 10—SRAVANA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres.	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs.			Cloud amount (Octas)		Wind speed, (km.p.h.)		No. of observations															
			At mean sea level or height en g. p.m. of nearest standard barometric level			At station level			Departure from normal			Relative humidity %		Departure from normal		Mean wind speed, kms. per hour		62 or more		20 to 61		1 to 19		N	NE	E	SE	S	SW	W	NW	Calm	Variable
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28			
Orissa—(Contd.)																															
Gopalpur—(Contd.)	1730	17	997.3	995.4	..	29.2	27.5	26.9	35.4	88	..	6.9	..	10.5	0	6	17	0	0	2	2	7	11	1	0	8	0	0			
	2330	"	999.7	997.8	..	27.9	26.4	25.8	33.2	89	..	6.1	..	5.6	0	2	16	0	0	2	0	3	10	3	0	13	0	0			
Koraput	0830	913	1431.9	902.7	..	21.2	20.1	19.7	22.7	91	..	7.0	..	..	0	0	31	2	1	0	0	0	4	11	13	0	0		
	1730	"	1420.6	901.2	..	22.4	21.0	20.3	23.9	88	..	7.9	..	..	0	0	31	0	0	0	1	0	10	12	8	0	0		
Titilagarh	0830	211	1000.0	976.6	..	26.5	24.2	23.1	28.5	82	..	6.2	..	3.9	0	0	31	1	1	0	1	11	15	2	0	0					
	1730	"	996.4	973.4	..	28.7	25.3	23.9	29.7	76	..	5.7	..	3.1	0	0	30	3	3	0	1	9	12	1	1	0					
Bolangir	0830	190	999.7	978.5	..	26.6	24.5	23.6	29.5	84	..	7.1	..	12.0	0	3	28	3	3	1	3	9	10	1	1	0					
	1730	"	996.9	975.8	..	28.2	25.1	23.7	29.5	78	..	7.1	..	11.3	0	3	28	1	1	1	3	10	9	1	1	0					
Angul	0830	139	999.6	984.0	-1.0	26.7	24.9	24.0	29.8	85	+5	7.7	+1.4	5.7	0	0	27	0	1	2	2	3	7	8	4	4	0				
	1730	"	996.6	981.2	..	28.3	25.4	24.0	30.0	78	..	7.7	..	6.3	0	0	31	1	5	0	3	4	16	1	1	0					
Konjhar	0830	463	996.2	945.5	..	25.7	23.7	22.7	27.9	84	..	7.1	..	7.6	0	0	30	2	1	1	5	0	4	9	8	1	0				
	1730	"	993.9	943.7	..	26.5	24.4	23.3	29.3	82	..	7.5	..	5.7	0	0	31	0	0	2	6	1	7	14	1	0					
Sambalpur	0830	148	999.4	982.9	-0.9	26.9	25.2	24.5	30.3	87	+3	6.5	-0.1	5.2	0	0	29	0	0	4	1	4	12	6	2	0					
	1730	"	996.7	980.2	..	28.4	25.7	24.8	31.5	80	..	6.8	..	4.3	0	0	30	1	2	4	2	4	9	5	3	1	0				
Jharsuguda	0230	230	997.5	972.0	..	25.6	24.8	24.4	30.7	93	..	7.2	..	3.4	0	0	17	0	2	1	0	3	11	0	0	14	0				
	0530	"	997.6	972.0	..	25.2	24.6	24.2	30.5	94	..	7.2	..	4.1	0	0	23	0	1	2	0	5	13	2	0	8	0				
	0830	"	999.0	973.5	..	26.9	25.1	24.3	30.3	87	..	7.3	..	4.5	0	0	24	0	2	1	1	5	14	1	0	7	0				
	1130	"	998.3	972.9	..	28.7	25.7	24.3	30.6	79	..	7.4	..	6.8	0	6	21	1	2	4	0	2	13	4	1	4	0				
	1730	"	996.0	970.6	..	28.2	25.5	24.3	30.5	81	..	7.3	..	5.5	0	0	24	0	3	2	2	3	11	3	0	7	0				
Chota Nagpur—Jamshedpur	2330	"	998.7	973.2	..	26.1	25.1	24.6	30.9	92	..	7.3	..	5.3	0	0	24	1	0	3	0	7	13	0	0	7	0				
	0830	129	998.5	984.1	-0.8	28.1	26.0	25.1	32.2	84	+3	7.1	0	8.1	0	0	31	0	3	9	2	0	5	10	2	0	0				
	1730	"	995.4	981.2	..	30.1	26.6	25.0	31.6	75	..	7.1	..	6.4	0	0	28	0	1	9	8	1	3	3	3	0	0				
Jamshedpur (P.B.O.)	0530	145	997.4	981.2	..	26.5	25.4	24.8	31.6	92	..	7.2	..	3.8	0	0	22	0	5	4	3	0	3	4	3	9	0				
	0830	"	998.6	982.5	..	28.2	25.8	24.7	31.1	82	..	7.2	..	7.0	0	0	29	1	4	4	3	0	9	6	2	2	0				
	1130	"	998.0	982.0	..	30.3	26.4	24.8	31.4	73	..	7.0	..	6.2	0	0	30	0	6	5	2	4	6	3	4	1	0				
	1730	"	996.0	980.0	..	30.2	26.4	24.7	32.0	74	..	7.3	..	5.8	0	0	28	1	5	3	7	3	3	4	2	3	0				
Chaibasa	0830	226	998.3	973.3	-0.9	28.1	25.8	24.8	31.3	83	+2	7.0	+0.5	2.6	0	0	26	0	9	0	2	0	12	0	3	5	0				
	1730	"	995.3	970.5	..	29.5	26.6	25.1	32.9	79	..	7.1	..	2.1	0	0	20	0	4	0	2	0	5	2	7	11	0				
Ranchi	0840	655	998.1	926.8	-1.0	24.5	23.0	22.3	27.2	87	+2	7.5	+0.9	0.8	0	0	8	0	1	5	2	0	0	0	23	0					
	1730	"	996.1	925.6	..	26.6	23.8	22.6	27.4	80	..	7.3	..	0.4	0	0	4	0	0	4	0	0	0	0	0	27	0				
Ranchi (C.W.O.)	0530	652	997.2	926.4	..	24.3	23.2	22.7	27.7	93	..	6.8	..	4.8	0	0	18	4	1	8	0	0	3	1	1	13	0				
	0830	"	998.1	927.4	..	25.1	23.5	22.8	27.7	88	..	7.3	..	7.9	0	0	24	2	2	9	0	0	2	6	2	1	7	0			
	1130	"	997.6	927.3	..	27.0	24.0	22.7	27.5	78	..	7.2	..	5.9	0	0	19	1	0	7	0	4	4	2	1	3	0				
Daltonganj	0830	221	998.1	973.7	-0.8	29.4	25.9	24.4	30.3	73	-7	6.5	+1.5	2.5	0	0	25	3	0	7	3	1	7	1	1	6	0				
	1730	"	994.8	970.7	..	30.4	26.2	24.6	30.7	71	..	7.2	..	3.8	0	0	29	1	2	6	4	4	4	6	2	2	0				
Hazaribagh	0830	611	998.3	931.9	-0.7	26.3	24.2	23.4	28.3	85	0	6.8	-0.3	6.7	0	1	25	2	1	5	7	3	3	1	4	5	0				
	1730	"	995.1	929.3	..	28.0	24.5	23.0	27.9	77	..	6.5	..	6.3	0	1	26	2	0	4	8	7	2	1	3	4	0				
Dhanbad	0830	257	998.4	970.0	..	28.2	25.8	24.9	31.3	83	..	7.0	..	8.2	0	1	30	2	2	2	13	4	4	1	5	0	0				
	1730	"	995.5	967.3	..	29.7	25.0	24.5	30.6	75	..	7.3	..	10.4	0	2	29	0	3	5	11	6	1	4	1	0	0				
Bihar—Purnea	0830	38	1000.0	995.8	-0.3	29.4	27.2	26.3	34.3	84	-1	5.9	0	4.7	0	0	28	1	3	19	5	0	0	0	0	3	0				
	1730	"	996.8	992.6	..	30.2	27.5	26.3	34.3	81	..	5.2	..	3.4	0	0	27	0	8	17	0	0	1	1	0	4	0				
Forbesganj	0830	61	1000.1	993.3	..	28.5	26.7	26.0	33.7	86	..	7.2	..	9.3	0	0	29	0	1	25	2	1	0	0	0	2	0				
	1730	"	996.5	989.8	..	31.0	27.7	26.3	34.3	77	..	5.9	..	6.5	0	0	30	0	0	0	22	4	2	0	2	0	1	0			
Darbhanga	0830	49	999.8	994.3	0	29.4	27.2	26.3	34.3	83	0	7.3	+1.2	3.2	0	0	31	0	1	19	8	2	0	0	1	0	0				
	1730	"	996.2	990.7	..	31.3	28.0	26.7	35.0	76	..	5.9	..	2.8	0	0	28	2	9	10	5	0	1	1	0	3	0				
Motihari (R)	0830	66																													
(R)	1730	"																													
Patna	0830	53	998.7	992.8	-0.7	30.0	26.8	25.4	33.1	77	-4	6.1	-0.5	8.7	0	1	30	0	9	12	5	2									

(i) Mean of 22 days

(R) Register not received.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JULY, 1958 (ASADHA 10—SRAVANA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Cloud amount (Oktas)			Wind speed (kms.) ph.			No. of observations													
			At mean sea level or height in g.p.m. of nearest standard isobaric level			At station level			Departure from normal			Departure from normal			Mean wind speed, in kms. per hour			Wind direction			N	NE	E	SE	S	SW	W	NW	Calm	Variable
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bihar—(Contd.)																												
Gaya	0230	116	997.1	984.2	..	28.3	26.3	25.2	32.8	86	..	5.6	..	5.7	0	0	17	0	1	3	5	5	1	2	0	14	0	
	0530	"	997.3	984.3	..	27.7	25.9	25.2	32.4	87	..	6.3	..	5.8	0	1	14	0	0	4	5	2	3	1	0	16	0	
	0830	"	998.5	985.5	-0.5	30.1	26.6	24.8	31.7	75	0	6.3	+1.1	8.9	0	3	18	1	1	6	7	0	1	5	0	10	0	
	1130	"	997.9	985.1	..	32.5	27.0	24.5	31.0	64	..	6.5	..	14.0	0	5	20	0	4	5	8	2	1	3	2	6	0	
	1730	"	995.1	982.2	..	31.4	26.7	24.4	31.2	69	..	6.5	..	8.8	0	5	15	0	1	4	9	3	1	1	1	11	0	
	2330	"	999.0	985.2	..	29.0	26.6	25.4	32.6	82	..	5.9	..	6.8	0	1	16	1	1	3	6	3	1	2	0	14	0	
Jamui	0830	82	998.5	989.2	..	30.5	27.3	27.0	34.1	78	..	5.6	..	5.0	0	0	28	0	4	14	6	0	0	0	4	3	0	
Dumka	0830	149	999.4	982.9	-0.3	28.9	26.3	25.1	32.4	80	-2	4.2	-1.6	5.8	0	0	31	2	5	11	10	2	1	0	0	0	0	
Bhagalpur	0530	49	998.2	992.7	..	27.8	26.3	25.9	32.6	91	..	6.2	..	3.8	0	0	19	0	0	11	4	2	0	2	0	12	0	
	0830	"	999.6	994.1	..	30.1	27.0	25.7	33.2	78	..	6.0	..	5.3	0	0	26	1	0	15	6	3	0	1	0	5	0	
	1130	"	998.9	993.4	..	32.4	27.5	25.4	32.5	68	..	6.1	..	7.1	0	0	26	0	0	12	11	1	1	0	5	0		
	1730	"	996.1	990.7	..	31.6	27.4	25.8	32.8	73	..	6.2	..	6.2	0	0	26	0	3	16	4	1	1	0	2	0		
Sabour	0830	37	999.2	995.1	-0.3	28.7	26.8	26.1	33.6	86	..	4.6	..	5.2	0	0	25	0	1	16	6	1	0	1	0	6	0	
	1730	"	995.8	991.6	..	31.7	28.4	27.0	35.9	78	..	6.7	..	11.9	0	3	28	1	1	19	6	0	0	2	2	0	0	
Uttar Pradesh (East)																												
Gonda	0830	110	998.8	986.5	..	29.2	26.7	25.7	33.5	82	0	6.0	-0.1	3.4	0	0	22	0	0	21	0	0	0	1	0	9	0	
	1730	"	995.6	983.5	..	31.2	27.0	25.9	32.1	72	..	4.2	..	2.4	0	0	11	0	0	10	0	0	0	1	0	20	0	
Nautanwa	0830	99	999.3	988.3	..	29.5	26.7	25.6	32.7	80	..	5.7	..	6.8	0	0	31	1	3	15	11	0	0	0	1	0	0	
	1730	"	996.2	985.3	..	30.3	27.2	25.9	33.1	78	..	5.7	..	6.3	0	1	29	2	5	9	10	2	1	1	0	1	0	
Gorakhpur	0830	77	998.8	990.5	-0.2	29.1	26.7	25.3	33.2	81	-2	4.7	-0.1	3.8	0	0	30	0	0	28	1	1	0	0	0	1	0	
	1730	"	995.4	986.8	..	31.0	27.6	25.6	34.6	75	..	5.4	..	2.6	0	0	23	1	3	15	1	1	0	1	1	8	0	
Gorakhpur (P.B.O.)	0230	78	997.5	988.7	..	27.4	26.4	25.8	32.9	89	..	5.5	..	6.8	0	2	25	2	13	4	6	1	0	0	1	4	0	
	0530	"	997.5	988.7	..	27.2	26.1	25.7	32.9	91	..	6.4	..	5.4	0	0	25	0	14	7	3	0	0	0	1	0	6	0
	1130	"	998.5	989.9	..	31.1	27.2	25.5	32.9	73	..	6.5	..	10.6	0	4	27	0	7	12	11	0	0	0	1	0	0	
	2330	"	998.1	989.4	..	28.4	26.8	26.0	33.6	87	..	5.1	..	6.7	0	2	22	1	14	4	3	1	0	0	1	7	0	
Azamgarh	0830	78	997.6	989.2	..	29.5	28.2	27.6	36.8	88	..	6.0	..	0	0	0	31	2	0	26	1	1	0	0	0	0	0	0
	1730	"	994.9	986.3	..	30.6	28.7	27.9	37.3	86	..	5.6	..	0	0	0	12	1	0	11	0	0	0	0	0	0	19	0
Ballia	0830	64	998.4	991.4	..	29.6	26.9	25.8	32.7	80	..	5.9	..	6.6	0	0	28	0	13	8	4	0	1	2	0	3	0	
	1730	"	995.1	988.1	..	32.3	27.1	24.8	31.2	67	..	5.3	..	5.9	0	0	25	0	15	6	1	1	1	1	0	6	0	
Varanasi (Banaras)	0830	76	997.1	989.3	-1.1	29.8	26.7	25.6	33.1	79	-1	5.2	-1.1	5.3	0	0	27	2	5	8	1	4	7	0	0	4	0	
	1730	"	994.5	986.3	..	31.8	27.3	25.5	32.5	69	..	6.1	..	4.9	0	0	25	5	5	9	0	1	5	2	1	5	0	
Varanasi (Banaras) (Babatpur Aerodrome)	0530	85	997.6	988.0	..	27.2	25.0	25.5	32.9	91	..	6.0	..	7.0	0	0	26	3	5	9	0	1	5	2	1	5	0	
	0830	"	998.8	989.0	..	29.4	26.8	25.7	32.7	80	..	6.7	..	11.3	0	2	29	0	6	7	5	1	8	3	1	0	0	
	1130	"	998.7	989.2	..	31.9	27.5	25.6	32.5	74	..	6.5	..	12.1	0	3	27	2	6	6	2	2	6	3	3	1	0	
	1730	"	995.8	986.4	..	31.5	27.1	25.3	32.5	72	..	6.1	..	10.6	0	1	29	4	6	5	3	2	3	2	1	0		
	2330	"	993.3	988.9	..	28.2	26.1	25.8	32.0	87	..	6.0	..	6.5	0	2	25	1	5	8	1	4	4	3	1	3	0	
Allahabad (Bamrauli)	0230	98	996.5	985.6	..	27.9	26.0	25.6	31.7	86	..	6.4	..	8.0	0	0	28	3	6	5	1	5	2	3	3	0		
	0530	"	996.7	985.7	..	27.5	25.8	25.2	32.5	88	..	6.7	..	6.9	0	0	28	3	4	8	2	2	4	3	3	0		
	0880	"	997.9	987.0	-0.9	29.4	26.4	25.1	31.9	80	+1	6.2	-0.3	7.9	0	2	25	2	3	7	1	4	2	6	2	4	0	
	1130	"	997.6	986.9	..	31.7	27.0	24.9	31.7	70	..	6.7	..	8.2	0	1	29	5	4	6	3	3	5	1	3	1	0	
	1730	"	994.6	983.9	..	31.9	26.8	24.5	32.0	69	..	6.7	..	11.0	0	2	29	3	7	6	0	3	6	5	1	0	0	
	2330	"	997.4	986.5	..	28.6	26.3	25.3	33.2	84	..	6.2	..	7.2	0	1	27	1	5	9	2	2	5	3	1	3	0	
Banda	0830	121	998.1	984.7	..	29.1	26.9	26.1	33.2																			

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JULY, 1958 (ASADHA 10—SRAVANA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas)		Wind speed (km. p.h.)	No. of observations															
			At mean sea level or height in g.p.m. of nearest standard isobaric level							At station level	Departure from normal		Mean amount		Departure from normal	Mean wind speed km. per hour	Wind direction											
			4	5	6								7	8	9		10	11	12	13	14	15	16	17	18	19		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
Uttar Pradesh (East) (Contd.)	0830	142	998.1	982.3	..	29.2	26.7	25.7	33.5	82	..	5.9	..	5.8	0	0	28	1	2	16	6	1	0	2	0	3	0	
	1730	"	994.7	979.1	..	32.0	27.4	25.7	33.7	71	..	4.7	..	4.7	0	0	26	2	2	10	9	0	0	3	0	5	0	
Lakhimpur Kheri	0830	147	998.5	982.1	..	27.4	26.3	25.9	34.2	92	..	5.3	..	2.4	0	0	14	0	0	14	0	0	0	0	0	0	17	0
	1730	"	995.3	979.3	..	31.3	27.4	25.9	32.9	74	..	5.0	..	2.6	0	0	19	0	9	16	0	0	0	0	2	1	12	0
Brahmaich	0830	124	998.7	984.9	-0.1	29.6	26.5	25.5	31.8	77	-3	5.7	+1.2	10.7	0	3	25	1	0	21	5	0	0	0	0	1	3	0
	1730	"	995.5	981.9	..	32.2	27.2	25.1	32.0	71	..	6.0	..	6.8	0	0	28	1	1	16	2	3	1	4	0	3	0	0
Uttar Pradesh (West) Orai	0830	141	998.5	982.9	..	29.5	26.8	25.7	32.7	82	..	5.5	..	4.5	0	0	31	1	8	0	5	0	3	2	12	0	0	
	1730	"	995.5	980.0	..	30.8	27.1	25.8	32.6	76	..	6.0	..	3.8	0	0	31	2	2	4	4	0	8	4	7	0	0	
Jhansi	0830	251	997.9	970.2	-1.2	28.0	25.1	23.9	29.4	80	+4	6.0	+1.3	3.1	0	0	22	1	3	0	1	0	1	8	8	9	0	
	1730	"	995.2	967.7	..	29.9	25.6	23.6	29.1	70	..	6.4	..	3.4	0	0	25	4	0	2	3	0	1	7	8	6	0	
Agra	0830	169	998.2	979.4	-0.3	29.2	26.5	25.3	32.7	81	+7	6.2	+0.9	2.1	0	0	12	0	0	1	6	1	4	0	0	19	0	
	1730	"	995.0	976.6	..	31.6	26.9	24.8	31.7	71	..	6.4	..	2.6	0	0	19	1	3	6	0	0	2	3	4	12	0	
Agra (Aerodrome)	0530	168																										
	0830	"																										
	1130	"																										
	1730	"																										
	2330	"																										
Mainpuri	0830	157	997.9	980.5	-0.6	29.3	26.9	25.9	33.5	83	+7	5.8	+0.5	1.5	0	0	15	0	0	11	3	0	0	1	0	16	0	
	1730	"	993.8	976.6	..	32.7	27.5	25.1	31.6	67	..	6.3	..	2.3	0	0	25	0	0	14	2	0	0	6	3	6	0	
Aligarh	0830	187	998.2	977.5	..	29.1	26.7	25.7	32.4	81	+3	6.6	+1.8	3.1	0	0	27	0	0	20	0	0	0	6	1	4	0	
	1730	"	995.4	974.8	..	31.7	28.0	26.3	34.1	76	..	7.2	..	3.5	0	0	19	3	0	11	1	0	0	4	0	12	0	
Bareilly	0830	173	998.1	979.0	-0.6	29.4	26.7	25.6	32.7	81	-1	6.5	+0.7	8.1	0	0	29	1	2	17	5	0	1	1	2	2	0	
	1730	"	994.9	976.0	..	31.5	27.2	25.2	32.5	71	..	5.9	..	4.0	0	1	20	0	0	16	2	0	1	1	10	0		
Bareilly (P.B.O.)	0230	172	997.0	977.9	..	28.2	26.6	26.0	33.6	88	..	5.6	..	7.4	0	1	23	0	4	14	4	1	0	1	0	7	0	
	0530	"	997.2	978.0	..	27.6	26.3	25.9	34.1	90	..	6.6	..	8.5	0	2	26	0	5	19	1	1	0	1	1	3	0	
Meerut	1130	"	998.1	979.2	..	31.3	28.4	27.5	36.3	81	..	6.2	..	13.8	0	4	27	0	1	14	8	4	0	2	2	0	0	
	2330	"	997.7	978.6	..	28.8	27.0	26.3	34.8	87	..	4.6	..	6.7	0	1	25	0	4	13	5	1	0	2	1	5	0	
Najibabad	0830	222	998.6	971.0	0	28.6	26.1	25.2	32.4	83	+8	4.5	-0.6	2.9	0	0	15	0	0	7	3	5	0	0	0	6	10	0
	1730	"	999.4	969.3	..	27.6	25.7	24.8	31.7	85	..	5.3	..	2.5	0	0	21	0	0	11	0	1	0	5	11	0		
Roorkee	0830	274	998.7	968.4	-0.1	27.6	25.8	25.0	32.5	86	+8	5.6	+0.5	1.3	0	0	14	0	3	0	9	0	0	0	2	17	0	
	1730	"	995.5	965.6	..	30.7	26.5	24.9	31.0	73	..	4.9	..	1.2	0	0	13	0	4	0	8	0	0	0	1	18	0	
Dehra Dun	0530	682	997.9	923.6	..	24.0	23.3	23.0	28.3	94	..	7.2	..	1.0	0	0	9	3	4	0	1	0	0	1	0	22	0	
	0830	"	999.5	925.4	+0.4	25.3	23.8	21.2	29.1	89	+5	6.2	0	1.4	0	0	15	2	3	1	3	2	1	1	16	0		
Panjab (India) (Including Delhi)—New Delhi	1130	"	998.4	924.8	..	27.2	24.5	23.4	28.6	81	..	6.9	..	4.2	0	0	20	0	3	0	11	0	1	0	5	11	0	
	1730	"	995.9	922.6	..	27.5	24.8	23.7	29.1	80	..	5.8	..	2.1	0	0	18	5	1	0	3	1	0	0	0	25	0	
	2330	"	997.7	924.1	..	25.4	24.2	23.8	29.9	91	..	6.6	..	0.8	0	0	6	1	1	0	3	1	0	0	0	0	25	0
	0230	216	996.8	972.9	..	27.8	25.9	25.3	31.7	86	..	6.0	..	6.9	0	1	20	1	0	6	6	4	2	2	0	10	0	
	0530	"	996.9	972.9	..	27.3	25.7	25.0	31.4	88	..	6.6	..	7.7	0	1	29	3	4	11	7	0	2	3	3	1	0	
Hissar	0830	"	998.1	974.3	-0.3	29.0	26.1	24.7	31.6	79	+5	6.8	+1.3	13.9	0	3	27	1	3	9	8	1	2	5	1	1	0	
	1130	"	997.9	974.2	..	31.5	26.7	24.6	32.7	69	..	6.5	..	10.4	0	4	24	2	3	7	7	2	1	5	1	1	0	
Karnal	1730	"	994.8	971.1	..	31.5	27.0	25.1	32.3	71	..	6.5	..	8.5	0	2	25	1	6	7	4	5	2	0	2	4	0	
	2330	"	997.3	973.4	..	28.6	26.3	25.3	32.0	83	..	5.0	..	5.9	0	1	24	1	0	7	10	2	4	1	0	6	0	
Patiala	0530	221	996.6	972.2	..	28																						

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JULY, 1958 (ASADHA 10—SRAVANA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars.			Mean temperature in °C			Vapour pressure in mbs.	Relative humidity %	Cloud amount (Oktas)		Wind speed (km. p.h.)			No. of observations												
			At mean sea level or height in ft.p.m. of nearest standard isobaric level	At station level	Departure from normal	Dry bulb	Wet bulb	Dew point			Departure from normal	Mean amount	Departure from normal	Mean wind speed, km. per hour	62 or more	20 to 61	1 to 19	N	NE	E	SE	S	SW	W	NW	Calm	Variable	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Punjab (India) (Including Delhi) (Contd.) Ambala Aerodrome	0530	273	997.1	966.6	..	26.6	25.5	25.1	32.6	92	..	6.9	..	10.7	0	6	20	1	5	14	5	0	0	0	1	5	0	
	0830	"	998.2	967.9	..	27.9	26.0	25.3	31.7	86	..	7.0	..	14.0	0	7	23	0	3	15	10	1	0	1	0	1	0	
	1130	"	998.0	967.9	..	30.0	27.0	25.7	33.1	79	..	6.6	..	15.2	0	10	20	0	5	11	9	2	0	1	2	1	0	
	1730	"	994.9	965.0	..	31.5	27.5	26.0	32.9	74	..	6.3	..	12.8	0	6	23	1	1	15	5	0	3	1	3	2	0	
	2330	"	997.0	966.8	..	28.1	26.6	26.0	33.8	90	..	4.6	..	8.5	0	1	20	1	2	12	5	0	0	0	1	10	0	
Chandigarh . .	0830	347	997.7	959.9	..	28.4	25.3	24.2	29.7	78	..	5.4	..	..	0	0	14	0	0	0	13	0	0	0	1	17	0
	1730	"	994.9	957.2	..	31.5	26.4	24.5	30.8	66	..	3.4	0	0	17	1	0	1	10	0	0	0	1	4	14	0
Ludhiana . .	0830	247	998.1	970.9	+0.1	29.2	25.9	24.4	30.0	78	+7	5.3	+1.4	1.4	0	0	10	0	0	0	10	0	0	0	0	21	0	
	1730	"	994.5	967.7	..	32.8	27.5	25.3	32.4	68	..	4.5	..	2.2	0	0	11	0	3	0	6	0	1	0	1	20	0	
Ferozepur . .	0830	200	996.7	974.6	..	30.1	26.4	24.9	31.5	75	..	2.9	..	1.7	0	0	18	0	5	1	5	1	2	0	4	13	0	
	1730	"	993.4	971.8	..	35.1	27.6	24.9	30.6	58	..	3.1	..	1.9	0	0	20	2	6	0	5	0	2	0	5	11	0	
Anamritsar . .	0530	234	996.8	970.9	..	27.1	25.7	25.0	31.8	88	..	5.3	..	8.9	0	4	23	0	4	15	4	1	1	1	4	0		
	0830	"	997.6	971.9	..	29.3	26.2	24.8	31.5	78	..	4.7	..	12.2	0	5	24	1	3	9	11	2	1	1	2	0		
	1130	"	997.5	972.0	..	32.2	27.2	25.2	32.0	68	..	4.6	..	12.6	0	6	25	0	0	6	14	4	2	2	0	0	3	
	1730	"	993.9	968.6	..	33.7	27.2	24.8	31.1	62	..	4.6	..	10.6	0	5	23	2	2	9	7	1	1	1	3	3	2	
Pathankot . .	0830	344	998.7	960.9	..	27.8	25.4	24.4	30.2	80	..	6.2	..	2.6	0	0	21	0	5	5	3	4	0	4	0	10	0	
	1730	"	995.8	958.7	..	32.5	26.9	24.4	31.0	64	..	6.0	..	2.9	0	0	25	2	2	1	2	6	1	11	0	6	0	
Pathankot (Aero-drome)	0830	312	998.3	964.0	..	28.5	25.4	24.1	30.0	78	..	6.5	..	3.3	0	0	27	0	6	6	5	2	4	3	1	4	0	
	1130	"	998.0	964.1	..	30.8	26.1	24.2	29.4	69	..	6.2	..	4.7	0	0	31	0	3	4	5	9	7	1	2	0	0	
Himachal Pradesh Bilaspur . .	0830	493	999.0	944.7	..	25.8	24.3	23.6	29.1	87	..	7.3	..	1.8	0	0	13	2	2	1	2	2	1	1	2	18	0	
	1730	"	995.1	941.8	..	30.2	25.6	23.6	28.7	69	..	6.2	..	5.5	0	0	31	2	0	1	1	15	7	1	3	0	1	
Mandi . .	0830	761	998.3	916.0	..	23.9	23.1	22.9	27.6	92	..	7.2	..	0.5	0	0	5	0	0	0	1	1	0	1	2	26	0	
Jammu & Kashmir Srinagar . .	0530	1587	1407.2	832.7	..	20.7	18.6	17.6	19.6	83	..	4.1	..	3.1	0	0	21	0	3	1	12	0	1	3	1	10	0	
	0830	"	1414.5	833.6	-0.3	23.8	19.9	17.9	19.3	70	-9	3.6	+0.2	2.0	0	0	14	0	0	0	8	3	0	1	2	17	0	
	1130	"	1406.2	833.0	..	28.0	21.1	18.0	20.1	55	..	3.6	..	4.0	0	0	25	1	0	2	5	1	1	6	9	6	0	
	1730	"	1372.5	830.0	..	30.1	21.2	17.0	20.9	47	..	3.8	..	2.3	0	0	20	0	1	0	5	1	3	5	5	11	0	
	2330	"	1398.7	832.1	..	23.5	19.9	18.2	20.6	73	..	3.3	..	3.2	0	0	23	0	2	2	5	0	7	3	4	8	0	
Gulmarg . .	0830	2655	3082.1	736.0	-0.1	18.5	14.9	12.5	14.4	69	-5	4.1	+0.3	4.0	0	0	25	0	7	9	6	2	1	0	0	6	0	
	1730	"	3064.6	734.3	..	20.6	16.5	14.1	15.9	68	..	4.1	..	4.4	0	0	25	1	1	5	9	3	0	2	4	6	0	
Leh . .	0530	3514	3077.7	663.0	..	12.6	5.5	-1.3	5.2	38	..	3.0	..	4.9	0	0	22	14	5	2	1	0	0	0	0	8	0	
	0830	"	3058.3	664.2	-0.1	16.3	8.0	-0.6	5.9	33	-20	3.4	-0.3	0.3	0	0	1	0	0	0	0	0	1	0	0	30	0	
	1730	"	3002.4	661.1	..	23.5	12.4	4.2	8.0	30	..	3.0	..	6.1	0	0	26	2	2	0	0	0	0	4	12	6	5	0
Skardu . (R)	0830	2288																										
	1730	"																										
Gilgit . (R)	0830	1491																										
	1730	"																										
Misgar . (R)	0830	3106																										
	1730	"																										
Jananu Rajasthan (West) Sri Ganganagar .	0830	"	28.6	24.9	23.4	28.2	73	+3	5.6	+1.5	..	0	0	31	3	18	1	0	0	5	2	2	0	0
	0530	177	995.5	975.9	..	29.5	25.2	23.3	28.8	70	..	3.0	..	3.8	0	0	24	0	1	3	8	4	7	1	0	7	0	
	0830	"	996.7	977.3	..	31.4	25.8	23.1	28.7	63	+3	3.0	+0.9	6.5	0	0	29	1	3	3	7	0	13	2	2	3	0	
	1130	"	996.4	977.2	..	34.8	26.5	22.7	25.0	51	..	3.6	..	7.0	0	0	28	0	0	3	10	3	8	2	2	3	0	
	1730	"	992.5	973.5	..	37.4	26.8	22.1	26.3	42	..	3.2	..	4.5	0	0	27	3	5	7	1	2	6	3	0	4	0	
	2330	"	995.2	975.9	..	32.0	25.7	23.2	27.6	61	..	2.9	..	4.3	0	1	16	0	1	5	5	3	3	0	0	14	0	
Churu . .	0830	291	997.8	966.0	..	29.1	25.5	23.8	29.3	75	..	5.2	..	14.0	0	8	21	1	0	5	0	2	6	14	1	2	0	
	1730	"	994.9	963.4	..	34.2	26.5	22.9	28.6	54	..	6.2	..	14.9	0	3	27	2	2	5	0	2	8	8	3	1	0	
Bikaner . .	0830	224	997.4	973.7	+0.6	30.0	25.3	23.1	28.3	67	+1	1.9	-1.0	10.2	0	0	30	0	2	1	3	1	17	4	2	1	0	
	1730	"	993.9	969.5	..	35.8	26.1	21.9	25.8	46	..	3.0	..	11.3	0	1	30	1	4	2	3	4	15	2	0	0	0	
Bikaner (P.B.O.) .	0530	224	995.9	971.3	..	29.0	25.7	24.3	30.0	77	..	4.1	..	9.7	0	0	27	0	2	0	2	7	14	1	1	4	0	
	1130	"	996.7	972.4	..	34.4	26.8	23.5	29.4	53	..	4.0	..	11.2	0	1	28	2	1	2	2	13	7	1	1	2	0	
	2330	"	995.8	971.4	..	31.5	26.5	24.4	30.																			

- *Observations for 30 days.

(B) Register—not received.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JULY, 1958 (ASADHA 10—SAVANA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Cloud amount (Octas)			Wind speed (km.p.h.)			No. of observations															
			At mean sea level or height in g.p.m. of the nearest standard isobaric level			At station level			Departure from normal			Departure from normal			Mean wind speed, km. per hour			Wind direction												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan (West) (Contd.)																														
Nagaur	0830	298	995.7	962.7	..	28.6	24.0	23.4	25.3	71	..	5.8	..	10.3	0	7	24	1	3	1	1	8	14	3	0	0	0	0		
	1730	"	994.5	962.8	..	33.4	25.0	21.0	24.9	49	..	5.8	..	15.6	0	4	27	1	0	4	0	8	13	2	3	0	0	0	0	
Jodhpur	0230	224	997.1	972.2	..	28.3	25.3	23.8	30.0	77	..	4.0	..	11.9	0	7	17	0	1	0	0	0	20	2	1	7	0	0	0	
	0530	"	997.3	972.5	..	27.5	25.0	23.8	29.1	81	..	5.1	..	12.5	0	3	24	0	3	0	0	1	20	3	0	4	0	0	0	
	0830	"	998.8	973.9	+1.1	28.6	25.5	24.1	29.7	77	+7	6.1	+0.4	15.0	0	5	24	0	2	1	1	2	19	4	0	2	0	0	0	
	1130	"	998.4	973.8	..	31.2	26.2	24.0	29.8	66	..	5.9	..	17.4	0	13	17	1	1	3	2	1	19	3	0	1	0	0	0	
	1730	"	995.1	970.7	..	33.3	26.2	22.9	27.5	56	..	6.0	..	15.2	0	8	22	1	3	1	1	3	18	3	0	1	0	0	0	
	2330	"	997.9	973.2	..	29.5	25.6	23.6	29.6	72	..	5.0	..	10.6	0	2	26	0	0	0	1	8	16	3	0	3	0	0	0	
Barmer	0530	194	997.0	975.4	..	27.7	25.2	24.8	30.2	81	..	7.3	..	9.9	0	0	30	1	2	0	0	8	14	4	1	1	0	0	0	
	0830	"	998.1	976.6	-0.3	29.0	25.6	24.1	30.3	75	-1	7.0	+1.6	12.1	0	1	30	0	2	1	1	8	13	5	1	0	0	0	0	
	1130	"	997.5	976.3	..	32.8	26.1	23.1	28.4	58	..	6.4	..	14.3	0	5	26	0	0	1	1	3	11	12	3	0	0	0	0	
	1730	"	994.5	973.4	..	35.0	26.4	22.5	28.1	50	..	7.0	..	14.6	0	5	26	0	0	1	0	4	12	12	2	0	0	0	0	
	2330	"	997.3	975.9	..	29.8	25.7	23.8	29.9	70	..	5.5	..	15.5	0	6	25	2	1	0	1	7	15	4	1	0	0	0	0	
Pilani	* 0822	"	..	..	..	29.3	25.2	28.5	28.6	71	..	5.1	..	16.6	0	6	9	0	0	0	0	5	10	0	2	0	0	0	0
	* 1730	"	..	..	..	32.3	25.8	23.9	27.9	59	..	6.1	..	17.4	0	3	14	1	1	2	3	1	5	4	0	0	0	0	0
Alwar	0830	271	998.3	968.3	..	28.3	26.1	25.0	32.0	83	..	6.0	..	3.3	0	0	21	1	5	2	2	1	5	3	10	0	0	0	0	
	1730	"	995.4	965.7	..	31.6	27.3	25.6	34.5	72	..	7.1	..	4.7	0	0	16	1	3	4	2	0	1	3	15	1	0	0	0	0
Sikar	0830	433	998.9	950.9	..	27.6	24.5	22.9	29.1	76	..	5.6	..	3.2	0	0	31	0	0	4	4	1	7	14	1	0	0	0	0	
	1730	"	994.9	948.4	..	31.6	25.6	22.6	27.7	62	..	6.5	..	3.0	0	0	31	0	0	1	6	1	4	9	9	1	0	0	0	
Jaipur	0830	436	998.6	950.8	-0.8	27.3	24.8	23.7	29.1	81	+8	6.3	+1.1	11.8	0	3	27	0	0	6	1	3	2	0	4	9	4	5	0	0
	1130	"	998.2	950.7	..	29.8	25.4	23.3	29.1	70	..	6.8	..	12.5	0	4	26	0	0	6	1	1	3	15	4	1	0	0	0	
	1730	"	995.3	948.1	..	29.9	25.5	23.4	29.1	70	..	7.2	..	9.2	0	2	28	3	5	4	0	1	6	7	4	1	0	0	0	
Jaipur * (Sanganer Aerodrome)	0230	390	996.5	953.6	..	26.3	24.3	24.1	28.6	87	..	5.1	..	0	0	0	26	1	1	4	1	0	3	10	6	5	0	0	0	
	0530	"	997.0	953.9	..	26.0	24.5	23.9	29.3	84	..	6.0	..	0	0	0	26	1	1	4	1	0	3	10	6	5	0	0	0	
	0830	"	998.2	955.2	..	27.5	25.5	24.1	30.6	82	..	6.3	..	0	0	0	26	0	0	5	2	0	0	14	7	3	0	0	0	
	1130	"	998.3	955.3	..	30.0	25.4	23.6	29.1	68	..	6.5	..	0	0	4	27	5	0	0	3	1	0	13	9	0	0	0	0	
	1730	"	995.2	952.7	..	29.9	25.3	23.7	28.3	70	..	7.1	..	0	0	2	25	2	0	5	0	0	6	9	5	4	0	0	0	
	2330	"	997.6	954.7	..	27.2	25.3	24.4	30.6	85	..	4.8	..	0	0	1	21	1	1	4	3	0	0	5	3	9	0	0	0	
Dholpur	0830	176	997.2	977.8	..	28.9	26.2	24.7	31.6	80	..	6.5	(b)	4.2	0	0	28	1	2	3	2	1	2	9	8	3	0	0	0	
	1730	"	994.4	975.3	..	29.9	26.4	24.9	31.5	72	..	6.2	(b)	6.4	0	0	24	3	1	4	1	0	1	9	5	5	0	0	0	
Ajmer	0830	486	998.7	945.6	-0.7	26.3	23.7	22.8	26.3	81	+7	6.9	+2.1	13.8	0	2	28	0	2	3	1	1	13	10	0	1	0	0	0	
	1730	"	995.5	943.1	..	30.1	24.7	22.3	26.1	65	..	7.0	..	8.3	0	0	30	1	2	1	1	1	10	12	2	1	0	0	0	
Kotah	0530	257	997.4	968.9	..	26.9	24.9	24.0	30.6	85	..	5.9	..	2.6	0	0	17	0	0	0	0	0	0	8	5	4	14	0	0	
	0830	"	998.8	970.4	-0.4	28.0	25.3	24.1	29.4	80	+10	6.3	+1.0	5.2	0	0	23	0	0	1	0	0	0	4	17	1	8	0	0	0
	1130	"	998.7	970.4	..	29.9	26.1	24.2	30.7	73	..	6.0	..	3.2	0	0	22	0	0	0	0	0	0	6	4	12	9	0	0	0
	1730	"	995.8	967.7	..	30.2	25.7	22.9	29.1	71	..	6.9	..	3.7	0	0	24	0	0	0	0	0	0	6	9	5	7	0	0	0
	2330	"	998.3	969.9	..	27.9	25.2	24.0	29.4	80	..	5.7	..	1.0	0	0	29	2	1	0	1	3	8	11	3	2	0	0	0	
Chambal	0830	351	998.9	960.2	..	26.8	25.6	25.1	31.9	91	..	6.1	..	5.0	0	0	29	2	1	0	1	3	8	11	3	2	0	0	0	
	1730	"	996.3	957.9	..	28.7	26.0	24.9	31.6	82	..	6.3	..	5.7	0	0	31	1	4	2	1	0	9	9	5	0	0	0	0	
Jhalawar	0830	321	999.2	963.6	-0.7	26.2	24.4	23.5	29.3	88	+7	5.4	-0.9	6.3	0	0	30	1	0	0	2	3	6	16	2	1	0	0	0	
	1730	"	998.5																											

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JULY, 1958 (ASADHA 10—SRAVANA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in millimetres	Mean pressure in millibars		Mean temperature in °C			Vapour pressure in mb.	Relative humidity %	Cloud amount (Octas)	Wind speed (km. p.h.)	No. of observations																		
			At mean sea level or height in g.p.m. of nearest standard isobaric level		At station level							Departure from normal	Dry bulb	Wet bulb	Dew point	Departure from normal	Mean amount	Departure from normal	Mean wind speed, km. per hour	62 or more	20 to 61	1 to 19	N	NE	E	SE	S	SW	W	NW	Calm	Variable
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28			
1																														
Madhya Pradesh (West) (Contd.)	Guna	0530	473	997.9	945.1	..	24.4	23.4	23.1	28.1	95	..	6.5	..	7.7	0	0	30	1	0	2	1	3	5	16	2	1	0		
		0830	"	993.8	946.3	-1.0	25.5	24.0	23.5	27.8	89	+6	7.0	+1.2	6.1	0	1	28	0	0	3	1	2	2	21	0	2	0		
		1130	"	998.7	946.5	..	27.6	24.6	23.3	28.5	79	..	7.0	..	8.7	0	2	28	2	1	2	0	0	3	18	4	1	0		
		1730	"	996.0	944.0	..	27.6	24.3	22.7	27.6	78	..	7.0	..	12.1	0	3	28	0	0	6	1	1	2	17	4	0	0		
		2330	"	998.7	946.2	..	25.2	23.7	23.1	28.1	88	..	6.1	..	7.1	0	2	24	1	0	2	2	3	9	9	0	5	0		
Rajgarh		0830	382	998.8	956.9	..	25.9	23.9	22.8	28.1	84	..	7.0	..	12.5	0	3	28	2	0	1	0	2	5	21	0	0	0		
		1730	"	996.3	954.6	..	28.7	24.7	22.5	28.0	73	..	7.2	..	11.3	0	2	28	2	2	0	0	3	2	19	2	1	0		
Neemuch		0830	496	1000.1	945.6	-0.4	25.4	23.4	22.6	27.6	85	+5	6.4	+0.6	13.5	0	6	25	0	2	0	2	0	7	20	0	0	0		
		1730	"	997.1	943.3	..	27.9	25.0	22.4	29.7	73	..	7.0	..	15.0	0	7	24	0	4	0	1	2	4	18	2	0	0		
Ratlam		0930	426	1000.7	946.9	..	24.0	23.3	23.1	28.3	91	..	7.6	..	9.3	0	0	30	0	0	1	0	0	0	13	15	1	1	0	
		1730	"	997.8	944.6	..	27.5	24.5	23.1	28.5	78	..	7.5	..	11.3	0	2	29	1	0	1	0	1	12	14	2	0	0		
Alirajpur		0830	293	1001.5	968.9	..	25.9	24.3	23.4	29.1	87	..	7.2	..	16.1	0	9	22	0	0	1	0	0	11	19	0	0	0		
		1730	"	998.6	966.4	..	28.5	25.1	23.6	29.2	75	..	7.4	..	17.1	0	7	24	0	0	0	1	2	15	11	2	0	0		
Indore.		0530	567	999.4	937.0	..	23.3	22.6	22.4	27.8	94	..	7.1	..	21.0	0	14	14	0	0	0	0	1	14	13	0	3	0		
		0830	"	1000.7	938.4	-0.7	24.3	23.0	22.5	26.7	90	+3	7.3	+0.1	21.8	0	13	18	0	0	1	1	1	12	12	4	0	0		
		1130	"	1000.2	938.4	..	26.6	23.7	22.5	27.3	78	..	7.0	..	26.1	0	19	12	0	0	1	1	0	10	14	5	0	0		
		1730	"	997.3	935.8	..	27.2	23.8	22.3	27.0	75	..	7.5	..	24.4	0	18	12	1	0	0	1	1	11	13	3	1	0		
		2330	"	1000.5	938.1	..	24.3	23.2	22.8	27.5	91	..	7.1	..	20.6	0	13	16	0	0	0	0	1	18	7	3	2	0		
Bhopal (Bairagarh)		0230	523	998.5	941.1	..	24.4	23.1	22.7	27.2	90	..	6.6	..	15.2	0	9	19	1	0	0	0	0	7	19	1	3	0		
		0530	"	998.6	941.1	..	24.1	23.0	22.6	27.2	92	..	7.1	..	19.3	0	14	16	1	0	0	1	0	5	19	4	1	0		
		0830	"	1000.1	942.7	-0.6	25.1	23.4	22.6	27.5	87	+1	7.4	+0.8	21.9	0	20	11	1	0	0	2	1	1	20	6	0	0		
		1130	"	999.7	942.7	..	27.1	23.9	22.5	26.5	77	..	7.5	..	22.9	0	17	14	0	0	1	2	1	2	18	7	0	0		
		1730	"	996.7	940.0	..	27.9	23.7	21.9	25.9	73	..	7.5	..	21.5	0	18	13	2	1	0	2	0	4	13	9	0	0		
Khandwa		0830	318	1001.0	965.8	-0.7	26.1	23.9	22.9	27.8	82	+2	7.6	+1.5	11.1	0	0	31	0	0	0	0	0	3	11	15	2	0	0	
		1730	"	997.7	962.8	..	28.7	24.6	22.5	27.4	70	..	7.8	..	10.9	0	0	31	0	0	0	1	1	14	11	4	0	0		
Hoshangabad		0830	302	999.9	966.4	-1.3	26.2	24.3	23.5	28.8	85	-1	7.0	+0.1	3.7	0	0	24	0	0	0	0	0	0	10	13	1	7	0	
		1730	"	996.6	963.5	..	29.2	24.8	23.1	27.7	72	..	7.1	..	3.0	0	0	22	0	0	1	1	0	1	10	9	1	8	0	
Betul		0830	653	1001.2	929.5	..	23.5	22.4	21.7	26.1	90	..	7.8	..	10.6	0	0	31	0	0	0	2	0	2	24	3	0	0		
		1730	"	997.8	927.0	..	26.1	23.3	22.0	26.4	79	..	7.8	..	11.5	0	1	30	2	1	1	0	1	4	15	7	0	0		
Chhindwara		0830	685	1000.0	925.3	..	24.4	22.8	22.0	26.5	87	..	7.5	..	5.4	0	0	31	2	1	0	1	0	7	13	0	0	0		
		1730	"	997.1	923.1	..	26.2	23.8	22.7	27.6	82	..	7.5	..	7.8	0	4	27	1	1	0	1	0	4	11	13	0	0		
Seoni		0830	619	999.2	931.8	-1.1	24.6	23.2	22.8	27.5	88	+5	7.3	+1.0	4.9	0	0	26	0	0	1	1	2	1	8	11	2	5	0	
		1730	"	996.8	929.9	..	26.8	23.5	22.5	26.5	73	..	7.3	..	4.7	0	0	25	1	1	1	1	2	8	7	4	6	0		
Sagar		0830	551	998.7	938.3	-1.0	24.9	23.2	23.0	27.3	89	-1	6.4	+0.2	13.9	0	6	25	0	0	2	1	0	4	16	8	0	0		
		1730	"	995.6	935.8	..	26.9	23.9	22.2	27.4	78	..	6.9	..	14.0	0	4	27	1	0	1	2	0	5	14	8	0	0		
Nowrang		0830	229	998.0	972.7	-1.2	27.8	25.5	24.5	30.7	84	+5	6.4	+0.2	4.6	0	0	29	1	1	3	0	3	11	6	4	2	0		
		1730	"	995.2	970.2	..	30.5	26.1	24.3	30.2	72	..	6.8	..	5.5	0	0	28	1	4	0	3	1	10	3	6	3	0		
Madhya Pradesh (East) Sutna		0530	317	996.7	961.7	..	25.6	24.5	23.9	29.8	89	..	6.5	..	4.5	0	1	16	0	0	2	2	0	6	7	0	14			

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JULY, 1958 (ASAHA 10—SRAVANA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount Octas	Wind speed (km. p.h.)	No. of observations																
			At mean sea level	At station level	Departure from normal	Dry bulb	Wet bulb	Dew point						N	NE	E	SE	S	SW	W	NW	Cloud	Variable							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28		
Madhya Pradesh (East) (Contd.) Ambikapur—(Contd.)	1730	611	995.7	929.6	..	26.9	24.2	23.0	28.1	81	..	5.7	..	9.2	0	0	29	6	1	1	4	3	6	8	0	2	0			
Champa	0830	245	999.5	972.2	..	26.6	24.3	23.5	28.7	83	..	7.5	..	8.1	0	0	31	0	0	6	1	1	3	18	2	0	0			
Raigarh	1730	..	996.2	969.2	..	28.9	25.2	23.4	29.2	75	..	7.4	..	9.5	0	0	30	0	0	3	3	0	10	12	2	1	0			
Raipur	0830	220	999.1	974.6	..	26.8	25.0	24.2	30.3	86	..	7.1	..	5.5	0	0	31	0	0	3	0	4	0	17	4	3	0	0		
Raipur	1730	..	996.0	971.7	..	28.9	25.6	24.0	30.0	76	..	7.5	..	5.4	0	0	31	1	3	1	5	0	13	4	4	0	0			
Kanker	0530	293	998.5	965.3	..	24.7	23.6	23.1	28.3	91	..	7.2	..	9.9	0	2	27	0	1	2	0	1	18	7	0	2	0			
Jagdalpur (P.B.O.)	0830	..	999.8	966.6	-1.0	25.9	24.1	23.2	28.7	86	+2	7.4	+1.0	8.5	0	2	26	1	0	3	0	2	6	16	0	3	0			
Jagdalpur (P.B.O.)	1130	..	999.2	966.4	..	27.0	24.6	23.4	27.8	78	..	7.5	..	9.7	0	3	27	2	0	3	2	2	7	14	0	1	0			
Gujarat Deesa	1730	..	996.6	963.8	..	28.4	24.7	23.0	27.8	72	..	7.3	..	11.4	0	1	30	0	0	5	1	1	12	11	1	1	0			
Idar	0830	402	1000.6	956.2	-0.4	25.3	23.4	22.5	27.3	85	+3	6.6	-0.8	4.2	0	0	18	0	0	0	0	0	0	9	8	1	13	0		
Ahmedabad	0830	..	997.6	953.6	..	27.4	24.5	23.2	28.4	78	..	6.8	..	4.5	0	0	22	0	0	0	0	1	0	19	1	1	9	0		
Ahmedabad	1130	..	1000.2	939.2	..	22.5	21.9	21.5	25.9	94	..	7.9	..	5.0	0	0	24	0	0	0	0	1	4	13	6	0	7	0		
Dohad	0830	..	1001.2	940.5	-0.8	24.2	22.7	22.0	26.6	87	+3	7.7	+1.1	5.3	0	0	23	0	1	0	0	0	3	12	6	1	8	0		
Dohad	1130	..	1000.5	940.3	..	26.4	23.3	22.1	26.5	79	..	7.5	..	9.3	0	3	26	0	2	0	1	2	8	16	0	2	0			
Baroda	0830	..	998.4	938.1	..	25.5	23.0	21.9	26.3	81	..	7.6	..	8.3	0	3	28	0	1	0	1	0	3	15	9	2	0	0		
Baroda (Aerodrome)	1130	..	1001.3	940.4	..	23.3	21.9	21.8	25.2	91	..	7.5	..	4.9	0	0	23	1	0	1	0	3	12	6	0	8	0			
Baroda	0830	136	999.9	984.7	-0.5	27.8	25.9	25.1	31.9	85	..	6.9	..	7.4	0	0	31	0	0	1	0	0	0	10	12	3	2	0		
Baroda	1730	..	996.6	981.5	..	32.2	24.6	23.8	30.2	61	..	7.3	..	10.1	0	0	31	0	0	1	3	11	10	6	0	0	0			
Broach	0830	219	1000.5	976.0	..	26.3	25.2	24.5	31.1	91	..	7.6	..	8.9	0	0	31	0	1	0	2	6	13	9	0	0	0			
Surat	0830	..	997.4	973.3	..	30.3	26.3	24.4	30.9	72	..	7.3	..	6.4	0	0	31	0	1	1	1	3	15	10	0	0	0			
Bhuj (P.B.O.)	0230	55	999.3	993.1	..	27.1	25.4	24.6	31.1	87	..	6.0	..	10.7	0	0	31	0	0	0	1	5	13	12	0	0	0			
Bhuj (P.B.O.)	0530	..	999.3	993.1	..	26.7	25.4	24.9	31.6	89	..	6.8	..	9.1	0	0	28	0	0	0	2	0	5	14	9	1	0	0		
Bhuj (P.B.O.)	0830	..	1000.6	994.4	-0.9	27.6	25.9	25.2	32.1	87	+4	7.0	+0.6	12.5	0	1	30	0	0	2	0	5	14	9	1	4	0	0		
Bhuj (P.B.O.)	1130	..	1000.7	994.5	..	30.0	26.3	24.8	31.2	74	..	7.1	..	14.3	0	3	28	1	0	1	1	2	13	9	4	0	0	0		
Bhuj (Acrodrome)	1730	..	997.5	991.4	..	31.4	26.7	24.8	31.1	69	..	7.2	..	16.2	0	5	25	1	1	0	1	4	7	11	5	1	0	0		
Bhuj (Acrodrome)	2330	..	1000.5	994.3	..	27.8	25.6	24.6	30.9	83	..	5.8	..	12.3	0	3	26	0	0	0	1	3	11	14	0	2	0	0		
Dohad	0830	333	1000.9	964.0	..	25.7	24.2	23.5	28.9	88	0	7.2	-0.1	26.1	0	25	5	0	0	1	0	0	0	12	16	1	1	0	0	
Dohad	1730	..	998.9	962.4	..	28.3	25.1	23.6	29.3	77	..	6.4	..	2.7	0	0	19	0	0	1	0	0	0	22	8	0	0	0	0	
Baroda	0530	34	1000.3	996.3	..	26.5	25.4	24.9	31.6	91	..	7.1	..	3.2	0	0	24	0	0	0	0	1	0	0	16	2	0	12	0	0
Baroda	0830	..	1001.6	997.6	..	27.8	26.0	25.3	32.1	86	+1	7.0	0	3.2	0	0	29	0	0	0	0	0	0	0	23	5	1	2	0	0
Baroda	1130	..	1001.7	997.8	..	30.2	26.4	24.9	31.5	74	..	6.9	..	6.5	0	0	31	1	0	0	0	0	0	3	19	8	0	0	0	0
Baroda (Aerodrome)	1730	..	1001.5	997.6	..	27.6	25.8	25.0	31.8	86	..	6.5	..	4.7	0	0	28	0	0	0	0	0	0	1	23	4	0	3	0	0
Baroda (Aerodrome)	2330	..	1001.4	997.1	..	27.8	25.9	25.1	31.9	85	..	7.0	..	10.1	0	2	29	0	1	0	2	2	1	5	0	0	0	0	0	
Baroda (Aerodrome)	0830	38	1001.4	997.1	..	29.9	26.3	24.8	31.3	74	..	7.4	..	10.8	0	2	28	1	0	1	0	2	2	1	5	0	0	0	0	0
Baroda (Aerodrome)	1130	..	1001.4	997.2	..	30.1	26.7	25.2	32.3	76	..	7.2	..	14.3	0	8	23	1	0	0	0	0	0	6	19	4	1	0	0	0
Broach	0830	17	1001.4	999.4	..	27.7	26.0	25.2	32.3	86	..	7.0	..	8.9	0	0	31	0	0	0	0	0	0	1	17	10	3	0	0	0
Surat	0530	12	1000.5	999.2	..	26.9	25.6	25.1	31.7	90	..	7.5	..	10.5	0	4	25	0	0	0	0	0	0	3	18	7	0	2	0	0
Surat	0830	..	1001.8	1000.5	-0.6	27.8	26.0	25.2	32.2	86	+3	7.4	+0.5	10.0	0	0	30	0	0	0	2	3	20	4	1	1	0	0	0	
Surat	1130	..	1002.2	1000.9	..	29.5	26.6	25.5	32.3	79	..	7.6	..	12.8	0	3	28	0	0	0	2	4	19	5	1	0	0	0	0	
Surat	1730	..	999.7	998.4	..	29.1	26.5	25.3	32.5	81	..	6.9	..	15.1	0	5	26	0	0	0	1	4	26	0	0	0	0	0	0	
Saurashtra & Kutch Naliya	0830	..	1002.1	1000.8	..	27.6	26.0	25.3	32.4	87	..	6.5	..	12.0	0	0	31	0	0	0	1	3	22	5	0	0	0	0	0	
Saurashtra & Kutch Naliya	1730	..	..	..	..	28.4	26.3	25.2	32.4	84	..	..	..	24.5</													

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JULY, 1958 (ASADHA 10—SRAVANA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Octas)		Wind speed (km. p.h.)	No. of observations													
			At mean sea level or height in ft. on nearest standard barometric level			At station level						Dry bulb	Wet bulb	Dew point	Mean amount	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	Variable		
	2	3	4	5	6	7	8	9				13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
I	2	3	4	5	6	7	8	9	At mean sea level or height in ft. on nearest standard barometric level	Relative humidity %	Departure from normal	Cloud amount (Octas)		Wind speed (km. p.h.)	No. of observations													
Saurashtra & Kutch (Contd.)	0830	11	1004.0	999.1	-0.6	28.6	26.9	26.1				7.6	+1.0	30.0	0	28	3	0	1	1	0	1	11	16	1	0	0	
Dwarka	1730	"	998.7	997.4	..	29.0	27.2	26.5				7.5	..	30.1	0	26	5	0	0	0	0	2	11	18	0	0	0	
Porbander	0830	7	1000.9	1000.1	..	28.1	26.8	26.3	34.2	90	..	7.2	..	..	..	..	..	1	0	0	1	1	11	16	1	0	0
Porbander (Acrodrome)	1730	"	999.4	998.6	..	28.9	27.3	26.7	35.0	88	..	7.7	..	..	..	..	..	0	0	0	2	0	15	13	1	0	0
Jamnagar	0830	7	1001.0	1000.2	..	28.9	26.4	25.6	32.4	83	..	6.5	..	24.4	0	24	7	0	0	1	1	1	12	16	0	0	0	
Jamnagar	1130	"	1001.3	1000.5	..	30.4	27.1	26.1	33.1	77	..	6.4	..	27.5	0	28	3	1	0	0	1	2	16	10	1	0	0	
Rajkot (Aerodrome)	0830	23	999.0	996.4	..	26.7	25.3	24.7	31.1	89	..	5.6	..	22.5	0	18	13	1	1	0	2	1	15	11	0	0	0	
Rajkot (Aerodrome)	0830	"	1000.2	997.6	-0.5	28.4	26.1	25.0	32.0	82	+1	6.1	+1.2	24.2	0	22	9	0	1	1	2	0	14	13	0	0	0	
Rajkot (Aerodrome)	1130	"	1000.3	997.8	..	30.4	26.3	24.3	30.8	71	..	6.6	..	34.0	0	28	3	0	0	1	1	1	7	21	0	0	0	
Rajkot (Aerodrome)	1730	"	998.0	995.5	..	30.1	26.1	24.1	30.7	71	..	6.3	..	37.2	0	28	3	0	1	0	0	2	5	22	1	0	0	
Surendranagar	0830	134	1000.5	985.5	-0.6	27.5	25.6	24.7	31.1	85	+4	5.1	-1.5	33.7	0	27	4	0	0	1	1	2	21	6	0	0	0	
Surendranagar	1130	"	1000.3	985.5	..	30.5	26.2	24.2	30.4	70	..	5.8	..	40.8	1	26	4	0	0	1	2	0	19	8	1	0	0	
Surendranagar	1730	"	998.1	983.3	..	30.2	25.9	23.8	29.9	71	..	5.3	..	43.3	0	29	2	0	0	0	1	2	20	8	0	0	0	
Bhavnagar	0830	74	1000.4	992.1	..	28.5	26.0	24.9	31.6	81	..	7.1	..	21.8	0	21	10	0	0	0	1	2	21	7	0	0	0	
Bhavnagar	1730	"	997.5	989.3	..	32.3	26.7	24.1	30.4	64	..	7.5	..	26.4	0	25	6	0	0	1	2	1	16	9	2	0	0	
Bhavnagar	0830	17	1001.7	999.8	0	28.2	25.6	24.5	30.7	80	+4	6.1	-0.2	6.4	0	0	31	0	0	0	2	1	18	10	0	0	0	
Bhavnagar	1730	"	998.8	997.0	..	31.9	26.0	23.3	28.7	62	..	6.3	..	10.0	0	1	30	0	0	0	0	4	12	15	0	0	0	
Bhavnagar (Aerodrome)	0630	11	1001.2	1000.0	..	28.7	25.5	24.1	30.1	77	..	6.1	..	23.5	0	20	11	0	0	0	1	1	17	12	0	0	0	
Bhavnagar (Aerodrome)	1130	"	1001.2	1000.0	..	31.2	25.8	23.4	28.8	64	..	6.3	..	28.9	0	24	7	0	0	1	3	1	9	17	0	0	0	
Mahuva	0830	16	1001.7	1000.0	..	27.6	26.9	26.6	34.9	95	..	(b) 5.7	..	19.5	0	11	17	0	0	0	1	3	14	1	1	0		
Mahuva	1730	"	999.9	998.2	..	29.5	28.3	27.8	37.5	91	..	(b) 5.8	..	32.0	0	28	1	0	0	0	1	5	15	8	0	0	0	
Keshod	0830	51	1001.6	995.8	..	28.5	26.2	25.6	32.1	83	..	6.1	..	31.7	0	27	4	0	1	1	0	2	7	20	0	0	0	
Keshod	1130	"	1001.8	996.1	..	29.5	26.5	25.3	32.2	78	..	6.9	..	38.0	0	28	3	0	0	1	0	1	7	22	0	0	0	
Veraval	0230	8	1000.7	999.8	..	27.7	26.3	25.6	33.1	89	..	5.6	..	34.1	0	30	1	0	0	2	0	1	9	19	0	0	0	
Veraval	0530	"	1000.4	999.5	..	27.5	26.1	25.5	32.7	89	..	6.4	..	30.4	0	27	4	0	1	1	0	1	10	18	0	0	0	
Veraval	0830	"	1001.7	1000.8	-0.6	28.1	26.4	25.7	33.1	87	+2	6.8	+0.2	33.4	0	27	4	1	0	0	2	1	8	18	1	0	0	
Veraval	1130	"	1002.2	1001.3	..	28.9	26.8	26.0	33.7	84	..	6.7	..	34.5	0	30	1	0	0	0	2	1	7	19	2	0	0	
Veraval	1730	"	1000.2	999.3	..	28.4	26.6	25.8	33.2	86	..	7.0	..	32.1	0	26	5	0	0	0	1	1	8	19	2	0	0	
Koskan Dahanu	0830	23	1002.4	1001.5	..	27.7	26.3	25.8	33.1	89	..	5.8	..	31.8	0	27	4	0	0	0	1	1	11	17	1	0	0	
Koskan Dahanu	0830	5	1003.0	1002.5	+0.3	27.2	25.7	24.9	31.9	88	0	7.0	-0.6	26.7	0	20	9	0	0	1	2	2	3	21	0	2	0	
Bombay (Colaba)	0830	1730	1001.2	1000.7	..	28.5	26.3	25.3	32.4	83	..	7.1	..	24.2	0	18	13	0	0	0	1	0	9	21	0	0	0	
Bombay (Colaba)	0830	15	1004.3	1003.1	-0.1	27.2	25.8	25.1	32.2	89	+6	7.2	+0.2	18.1	0	10	21	0	0	0	0	0	2	7	21	1	0	0
Bombay (Santacruz Aerodrome)	1130	"	1004.6	1003.4	..	28.4	26.5	25.7	33.0	85	..	7.3	..	19.6	0	9	22	0	0	0	1	1	11	17	1	0	0	
Bombay (Santacruz Aerodrome)	1730	"	1002.6	1001.4	..	28.0	26.3	25.6	32.9	86	..	7.2	..	16.4	0	7	24	0	0	0	0	2	10	17	2	0	0	
Alibag	0830	15	1002.9	1001.3	..	27.0	25.5	24.6	31.5	88	..	7.4	..	24.3	0	22	8	0	0	0	1	3	14	12	0	1	0	
Alibag	0830	7	1004.4	1003.6	-0.3	27.3	25.8	25.1	32.0	88	+4	7.7	+0.1	31.4	0	29	2	0	0	1	5	12	9	1	0	3		
Harnai	0830	20	1004.9	1002.5	+0.4	27.1	25.5	24.8	31.4	87	+2	8.0	..	24.6	0	19	12	0	0	0	1	1	10	17	2	0	0	
Harnai	1730	"	1003.3	1001.0	..	27.3	25.6	24.8	31.4	85	..	8.0	..	25.4	0	18	13	0	1	0	1	3	8	15	3	0	0	
Ratnagiri	0830	35	1006.1	1002.1	+0.2	26.8	25.3	24.7	31.0	88	..	6.8	..	24.0	0	24	7	0	0	0	2	0	0	7	22	0	0	0
Ratnagiri	1730	"	1004.2	1000.3	..	27.8	25.8	24.9	31.5	85	..	7.4	..	20.0	0	24	7	0	0	0	0	0	12	19	0	0	0	
Devgad	0830	3																										

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JULY, 1958 (ASADHA 10—SAVANA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars				Mean temperature in °C				Vapour pressure in mb	Relative humidity %	Cloud amount (Oktas)	Wind speed (km. p.h.)	No. of observations															
			At mean sea level		Or height in g.p.m. of nearest standard isobaric level		At station level		Dry bulb	Wet bulb	Dew point	Vapour pressure in mb		Departure from normal	Mean amount	Departure from normal	Mean wind speed, km. per hour													
			2	3	4	5	6	7	8	9	10	11		12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1																														
Maharashtra (Contd.)	0830	437	1001.9	953.7	-0.7	25.9	23.1	21.8	26.0	78	+4	7.0	+1.0	9.8	0	3	26	0	0	0	1	1	27	0	2	0	0	0		
	1730	"	999.3	951.5	..	28.1	23.3	21.0	24.7	66	..	7.3	..	16.1	0	5	26	0	0	1	0	0	0	1	15	14	0	0	0	
Deolali	0830	571	1003.5	940.5	..	23.7	22.4	21.8	26.1	89	..	7.2	..	21.9	0	21	10	1	0	0	0	0	1	15	14	0	0	0	0	
	1730	"	1001.6	939.0	..	24.9	22.8	21.8	26.2	83	..	7.2	..	26.8	0	26	5	0	0	0	0	0	0	15	16	0	0	0	0	
Aurangabad.	0830	581	1003.3	939.4	-0.5	23.7	22.4	21.8	26.2	90	+9	6.6	-0.4	17.8	0	10	21	0	0	0	0	0	1	4	26	0	0	0	0	
	1730	"	1000.2	937.0	..	26.7	23.0	21.3	25.4	73	..	6.8	..	23.4	0	18	13	0	0	0	0	0	0	1	2	27	1	1	0	
Aurangabad (Chikalthana Aerodrome)	0230	579	1001.6	937.7	..	22.7	21.8	21.3	25.6	92	..	6.6	..	13.7	0	8	19	0	0	0	0	0	0	3	22	2	4	0	0	
	0530	"	1001.6	937.6	..	22.4	21.6	21.2	25.1	93	..	7.1	..	12.9	0	7	18	0	0	0	0	0	0	1	22	2	6	0	0	
Ahmednagar	0830	"	1002.7	938.9	..	23.9	22.4	21.8	26.0	88	..	7.3	..	15.2	0	8	21	0	0	0	0	0	0	1	23	5	2	0	0	
	1130	"	1002.1	939.0	..	26.7	23.3	21.8	26.2	75	..	7.5	..	20.3	0	14	17	0	0	0	0	0	0	2	24	5	0	0	0	
Ahmednagar	1730	"	999.4	936.5	..	26.9	23.2	21.6	25.6	74	..	7.4	..	28.5	0	22	9	0	0	0	0	0	0	4	21	6	0	0	0	
	2330	"	1002.9	939.1	..	23.4	22.0	21.4	25.4	89	..	6.2	..	18.4	0	13	18	0	0	0	0	0	0	3	26	2	0	0	0	
Parbhani	0830	657	1003.2	931.2	-0.7	24.1	21.7	20.6	24.2	81	+4	6.4	+0.6	7.6	0	0	31	0	0	0	0	0	0	27	0	4	0	0		
	1730	"	1000.4	929.4	..	26.8	22.2	19.7	23.5	67	..	6.7	..	9.7	0	0	31	0	0	0	0	0	0	7	0	24	0	0		
Poona	0830	423	1003.1	956.1	..	24.6	23.9	23.5	29.1	94	..	7.0	..	16.2	0	5	26	0	0	0	0	0	0	4	27	0	0	0		
	1730	"	999.1	952.9	..	28.8	26.6	25.8	33.0	85	..	7.3	..	22.9	0	19	12	0	0	0	0	0	0	3	24	4	0	0		
Poona (Lohagaon Aerodrome)	0530	559	1002.7	940.8	..	22.8	21.5	20.8	24.7	89	+6	6.9	+0.3	4.6	0	0	24	0	0	0	0	0	0	1	4	18	0	8	0	
	0830	"	1003.8	942.2	-0.4	24.0	22.1	21.3	25.1	85	..	7.1	..	5.5	0	0	23	0	0	0	0	0	0	1	6	17	0	7	0	
Baramati	0830	"	1003.6	942.4	..	26.2	23.0	21.6	25.8	76	..	7.5	..	7.9	0	0	28	0	0	0	0	0	0	1	10	17	0	3	0	
	1730	"	1001.7	940.4	..	25.4	22.6	21.2	25.4	78	..	7.3	..	6.8	0	0	30	0	0	0	0	0	0	0	11	19	0	1	0	
Jeur	0830	"	1004.5	942.6	..	23.1	21.7	21.0	24.9	88	..	6.4	..	4.6	0	0	23	0	0	0	0	0	0	0	10	13	0	8	0	
	1730	"	1001.8	936.7	..	24.8	22.0	20.7	24.4	79	..	7.1	..	27.4	0	25	6	0	0	0	0	0	0	0	1	29	1	0	0	
Sholapur	0830	551	1003.9	943.3	..	24.5	22.3	21.4	25.3	81	..	6.9	..	20.7	0	12	19	0	0	0	0	0	0	0	8	20	3	0	0	
	1730	"	1001.2	941.2	..	27.0	22.7	20.6	24.3	69	..	6.5	..	30.0	0	24	7	0	0	0	0	0	0	0	8	20	3	0	0	
Miraj	0830	521	1003.5	946.1	..	24.3	21.6	20.8	23.7	78	..	5.5	..	7.1	0	0	29	0	0	0	0	0	0	0	4	18	7	2	0	
	1730	"	1000.6	943.9	..	27.9	22.6	20.0	23.6	64	..	5.9	..	19.5	0	13	18	0	0	0	0	0	0	0	0	18	13	0	0	0
Kolhapur	0530	479	1003.3	950.1	..	23.0	21.6	20.9	24.8	88	..	6.4	..	11.7	0	1	30	0	0	0	0	0	0	0	23	7	1	0	0	
	0830	"	1004.2	951.3	-0.3	24.6	22.4	21.4	25.5	83	+10	5.9	-0.1	10.4	0	0	31	0	0	0	0	0	0	0	27	4	0	0	0	
Vidarbha	1130	"	1003.5	951.2	..	28.3	23.3	20.6	25.0	65	..	6.9	..	18.7	0	10	21	0	0	0	0	0	0	0	15	12	4	0	0	
	1730	"	1000.5	948.4	..	28.7	23.2	20.7	24.3	64	..	6.4	..	13.8	0	1	29	0	0	0	0	0	0	0	21	2	7	1	0	
Miraj	2330	"	1004.7	951.6	..	24.5	22.0	20.8	24.6	80	..	5.2	..	16.3	0	6	25	0	0	0	0	0	0	0	21	10	0	0	0	
	0830	554	1005.4	944.2	-0.3	23.5	22.0	21.3	25.4	88	+5	7.4	0	15.6	0	4	27	0	0	0	0	0	0	0	8	15	8	0	0	
Kolhapur	1730	"	1003.1	942.5	..	25.4	22.3	20.9	24.7	76	..	7.4	..	26.0	0	23	8	0	0	0	0	0	0	0	12	15	4	0	0	
	0530	570	1004.0	940.9	..	22.2	21.4	21.0	24.9	92	..	7.4	..	17.1	0	7	24	0	0	0	0	0	0	0	2	29	0	0	0	
Vidarbha	0830	"	1005.3	942.3	-0.3	23.1	22.0	21.5	25.7	91	+2	7.5	+0.6	18.5	0	8	23	0	0	0	0	0	0	0	1	29	1	0	0	
	1130	"	1005.3	942.6	..	24.6	22.6	21.7	25.9	84	..	7.3	..	23.7	0	19	12	0	0	0	0	0	0	0	3	27	1	0	0	
Akola	1730	"	1003.5	940.7	..	23.9	22.2	21.4	25.5	86	..	7.2	..	20.5	0	15	16	0	0	0	0	0	0	0	3	27	1	0	0	
	0830	650	1001.6	930.3	..	23.4	21.8	21.1	24.9	86	..	7.6	..	5.3	0	0	31	0	0	0	0	0	0	0	2	29	0	0	0	

TABLE III.—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JULY, 1958 (ASADHA 10—SRAVANA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.		Mean pressure in millibars		Mean temperature in °C			Cloud amount (Octas)		Wind speed (km. p.h.)		No. of observations																			
	Height of barometer cistern above mean sea level in metres		At mean sea level or height in g.p.m. of nearest standard isobaric level		At station level			Departure from normal		Mean amount		Wind direction		N		NE		E		SE		S		SW		W		NW		Calm	Variable
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28			
Vidarbha—(Contd.)																															
Gondia	0830	313	1000·5	965·7	..	25·8	23·9	23·1	28·1	85	..	7·6	..	5·2	0	0	31	2	0	1	1	2	16	3	2	0	4				
	1730	"	997·3	962·9	..	27·7	24·7	23·3	28·7	77	..	7·4	..	7·4	0	1	27	1	2	1	1	0	5	1	5	3	2				
Brahmapuri	830	229	1001·1	975·6	..	25·9	24·1	23·2	28·7	86	..	7·8	..	9·9	0	0	30	2	1	1	0	5	8	10	3	1	0				
	1730	"	997·7	972·4	..	27·7	24·7	23·2	28·9	77	..	7·9	..	9·6	0	1	30	4	1	2	1	8	6	6	3	0	0				
Chanda	0830	"	1001·5	979·9	-0·8	26·1	24·3	23·3	29·3	85	+7	7·6	+1·4	12·3	0	0	31	1	0	0	0	0	12	14	4	0	0				
	1730	"	998·0	976·7	..	28·4	25·2	23·8	29·6	77	..	7·4	..	11·3	0	1	28	0	1	0	2	2	6	12	6	2	0				
Sironcha	0830	123	1002·3	988·4	..	26·1	24·3	23·4	28·9	85	..	7·7	..	3·1	0	0	29	1	0	0	2	4	6	15	1	2	0				
	1730	"	998·6	985·2	..	29·2	25·4	23·4	29·3	73	..	7·6	..	3·8	0	0	29	1	0	3	3	3	6	10	3	2	0				
Coastal Andhra Pradesh Nellore	0530	20	1003·9	1001·2	..	27·7	23·8	22·5	26·3	71	..	7·5	..	4·2	0	0	27	0	0	0	0	0	1	6	19	1	4	0			
	0830	"	1004·8	1002·6	-0·2	29·8	24·3	21·8	25·8	63	0	7·2	+0·9	9·2	0	0	31	0	0	0	1	1	3	25	1	0	0				
Ongole	1130	"	1004·2	1002·0	..	32·8	24·8	20·9	25·7	50	..	6·9	..	14·4	0	2	28	0	0	0	0	0	0	5	24	1	1	0			
	1730	"	1001·3	999·0	..	33·5	25·0	20·8	24·7	49	..	7·2	..	9·8	0	2	28	0	0	0	0	0	0	4	14	0	11	0			
Rentachintala	0830	12	1003·9	1002·6	..	30·0	..	..	..	..	..	6·8	..	12·4	0	3	23	0	0	0	0	0	0	10	13	3	5	0
	1730	"	1000·7	999·4	..	31·2	..	..	..	..	..	6·5	..	11·8	0	0	29	0	0	1	0	8	4	12	4	2	0	
Gannavaram	0830	106	1003·6	991·6	..	27·6	24·2	22·7	27·4	74	+4	7·6	+0·6	6·7	0	0	30	0	0	0	0	0	0	3	27	0	1	0			
	1730	"	1000·2	988·5	..	31·2	24·9	22·1	26·1	59	..	7·5	..	6·9	0	0	31	3	0	0	0	0	1	1	24	2	0				
Masulipatam	0230	24	1001·4	998·8	..	26·0	24·0	23·2	28·3	85	..	7·2	..	11·5	0	0	30	0	0	0	0	0	0	5	19	1	5	0			
	0530	"	1001·7	999·1	..	25·7	23·8	22·8	27·9	85	..	7·3	..	9·4	0	2	24	1	0	0	0	0	1	3	17	5	5				
Nidadavolu	0830	"	1003·3	1000·7	..	27·1	24·4	23·1	28·5	80	..	7·1	..	12·8	0	6	20	0	0	0	0	0	0	3	23	5	0	0			
	1130	"	1002·7	1000·2	..	29·5	25·3	23·4	28·9	71	..	6·7	..	22·1	0	13	18	0	0	0	0	0	0	3	23	5	0	0			
Kakinada	1730	"	1000·0	997·5	..	30·2	25·5	23·2	28·8	68	..	7·1	..	14·6	1	5	19	0	0	0	0	0	0	4	15	6	6	0			
	2330	"	1002·6	1000·0	..	27·1	24·6	23·4	28·9	81	..	6·9	..	11·3	0	3	26	0	0	0	0	0	0	2	8	18	1	2			
Visakhapatnam	0530	3	1002·0	1001·7	..	26·0	24·4	23·7	29·4	88	..	7·9	..	9·6	0	0	30	0	0	0	0	0	1	5	17	7	1	0			
	0830	"	1003·5	1003·2	-0·6	26·9	24·8	23·8	29·6	84	+6	7·1	+0·9	9·6	0	0	28	0	0	0	0	0	0	5	15	8	3	0			
Calingapatam	1130	"	1003·2	1002·9	..	29·4	25·7	24·0	30·0	74	..	7·4	..	14·8	0	3	28	0	0	0	0	0	0	3	21	7	0	0			
	1730	"	1000·4	1000·1	..	29·7	26·0	24·4	30·7	74	..	7·2	..	9·9	0	1	26	2	0	0	0	0	1	5	11	8	4	0			
Telangana Ramagundam	0830	12	1002·9	1001·5	..	26·5	24·7	21·8	29·-	85	..	7·3	..	16·6	0	8	23	0	0	0	0	0	0	9	22	0	0	0			
	1730	"	1000·0	998·6	..	29·2	26·1	24·9	31·3	78	..	7·4	..	17·7	0	9	22	1	0	0	0	0	0	10	15	5	0	0			
Nizamabad	0830	8	1002·4	1001·5	-0·8	27·7	25·6	24·7	31·3	79	+1	6·6	+0·4	11·3	0	0	31	0	0	0	0	0	0	30	1	0	0				
	1730	"	999·7	998·8	..	29·5	26·6	25·3	32·7	79	..	6·6	..	10·3	0	0	31	0	0	0	0	0	0	3	29	0	2	0			
Mahbubnagar	0230	3	999·4	999·0	..	27·3	25·6	25·1	31·5	88	..	6·1	..	8·8	0	2	21	0	0	0	0	0	0	20	3	0	8	0			
	0530	"	999·5	999·1	..	26·8	25·4	24·8	31·4	89	..	7·3	..	8·2	0	2	21	0	0	0	0	0	0	28	1	1	0	0			
Hyderabad (Begum-pet Aerodrome)	0830	"	1000·9	1000·5	-1·2	28·3	26·3	25·4	32·6	85	0	7·5	+0·7	12·5	0	2	29	0	1	0	0	0	0	24	4	2	0	0			
	1130	"	1003·1	943·5	..	26·5	23·0	21·4	25·4	74	..	7·3	..	16·2	0	9	22	0	0	1	0	0	0	24	4	2	0	0			
Hakimpet	1730	"	999·9	940·7	..	27·1	23·1	21·2	26·9	72	..	7·2	..	16·9	0	8	23	0	0	1	0	0	0	18	10	1	0	1			
	2330	"	1003·6	943·5	..	23·8	21·9	21·1	24·7	86	..	7·2	..	12·9	0	4	25	0	0	0	0	0	0	25	4	0	2	0			
Hanamkonda	0530	613	1002·4	934·8	..	22·2	21·0	20·5	24·0	91	..	7·2	..	21·9	0	16	15	0	0	0	0	0	0	6	25	0	0	0			
	0830	"	1003·1	935·8	..	23·4	21·9	21·1	25·3	87	..	7·3	..	23·2	0	18	13	0	0	0	0	0	0	4	26	1	0	0			
Hakimpet	1130	"	1002·7	935·8	..	25·9	22·9	21·4	25·7	78	..	7·5	..	26·5	0	26	5	0	0	0	0	0	0	3	25	3	0	0			
	1730	"	1000·2	933·6	..	26·1	23·0	21·6	25·9	78	..	7·4	..	20·7	0	14	17	0	0	0	0	0	0	2	24	5	0	0			
Hanamkonda	0830	269	1002·8	972·9	-0·7	25·9	23·5	22·5	26·5	81	+7	6·4	+0·2	10·0	0	0	31	0	0	0	0	0	0	1	1	19	10	0	0		
	1730	"	1000·1	970·7	..	29·3	24·6	22·4	27·1	68	..	6·7	..	10·7	0	2	29	0	0	0	0	0	0	1	1	19	10	0	0		

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JULY, 1958 (ASADHA 10—SRAVANA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Cloud amount (Octas)			Wind speed (km. p.h.)			No. of observations																
															Wind direction																
			At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Mean amount	Departure from normal	Mean wind speed, km. per hour	62 or more	20 to 61	1 to 19	N	NE	E	SE	S	SW	W	NW	Calm	Variable				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28				
Telangana—(contd.) BhadraChallani	0830	111	1003.2	990.8	..	26.2	24.4	23.8	29.2	85	..	7.4	..	8.3	0	0	2	0	1	11	14	2	1	0	0						
	1730	"	999.5	987.3	..	29.7	25.3	23.2	28.7	70	..	7.6	..	6.8	0	0	29	2	0	0	0	0	8	14	5	2	0				
Khammameth	0830	112	1002.9	990.6	..	26.2	24.7	23.6	27.4	86	..	6.9	..	9.3	0	1	28	1	0	0	0	1	9	17	1	2	0				
	1730	"	999.9	988.1	..	29.6	25.6	23.8	29.5	72	..	6.7	..	11.0	0	5	24	1	0	0	0	1	4	16	7	2	0				
Rayalaseema— Arogavaram	0830	701	1005.9	992.4	..	24.4	20.4	18.4	21.0	69	..	6.7	..	15.8	0	3	28	1	0	0	0	0	0	3	20	7	0	0			
	1730	"	1001.9	926.7	..	28.5	21.0	17.0	19.4	58	..	7.0	..	16.0	0	6	25	1	0	0	0	0	0	2	11	17	0	0			
Cuddapah	0830	130	1005.8	991.2	-0.3	29.2	24.1	21.3	25.9	64	-1	6.9	+0.7	6.9	0	0	27	0	0	0	0	0	0	0	20	7	4	0			
	1730	"	1001.9	987.5	..	32.2	27.0	24.4	31.4	69	..	5.9	..	10.7	0	0	29	0	0	0	0	0	0	0	23	6	2	0			
Anantapur	0530	350	1004.3	965.2	..	24.3	21.8	20.3	24.1	79	..	6.9	..	13.2	0	2	29	0	0	0	0	0	0	0	29	0	0	0			
	0830	"	1005.4	966.7	..	26.3	22.6	20.7	24.3	72	..	7.3	..	18.6	0	13	18	0	0	0	0	0	0	0	2	29	0	0	0		
Kurnool	1130	"	1004.6	966.2	..	29.7	23.1	19.6	22.8	55	..	7.0	..	26.3	0	26	5	0	0	0	0	0	0	0	2	26	3	0	0		
	1730	"	1002.2	963.8	..	29.4	22.7	19.0	22.2	55	..	7.4	..	26.3	0	26	5	1	0	0	0	0	0	0	1	27	2	0	0		
Kurnool	2330	"	1005.5	966.6	..	25.9	22.4	20.5	24.3	73	..	6.5	..	22.5	0	17	14	0	0	0	0	0	0	0	1	30	0	0	0		
	0830	281	1005.4	974.1	+0.1	25.7	23.7	22.1	25.8	81	+9	8.0	+1.7	23.5	0	17	14	0	0	0	0	0	0	0	22	7	2	0	0		
Madra= State— Palayamcottai	1730	"	1001.5	970.6	..	28.6	24.3	21.0	26.5	65	..	7.5	..	36.7	1	26	3	0	0	0	0	0	0	0	13	11	6	1	0		
	0830	51	1007.8	1002.1	..	30.0	23.5	20.1	23.6	55	..	5.6	..	17.8	0	14	17	0	0	0	0	0	0	0	1	5	23	2	0		
Tuticorin	1730	"	1005.0	999.4	..	31.5	23.7	19.6	23.0	50	..	6.2	..	26.3	0	17	14	0	0	0	0	0	0	0	5	25	1	0	0		
	0830	4	1008.1	1007.7	..	30.5	24.0	20.6	24.5	56	..	4.9	..	18.4	0	12	19	0	0	0	0	0	0	0	7	22	2	0	0		
Pamban	1730	"	1004.8	1004.4	..	33.0	24.1	19.5	22.8	46	..	4.5	..	26.2	0	25	6	0	0	0	0	0	0	0	1	28	2	0	0		
	0830	11	1007.9	1006.6	+0.2	28.9	26.1	25.0	31.5	80	-5	4.4	+1.4	9.5	0	1	30	0	0	0	0	0	0	0	18	4	0	0	0		
Mathurai	1730	"	1004.8	1003.5	..	28.8	26.7	25.9	33.4	84	..	6.6	..	18.0	0	9	22	0	0	0	0	0	0	0	31	4	23	0	0		
	0830	133	1007.0	992.2	-0.3	29.4	23.6	20.6	24.4	60	+3	6.2	+0.7	3.0	0	0	31	1	0	0	0	0	0	0	1	14	12	4	0	0	
Nagapattinam	1730	"	1003.1	988.3	..	34.4	24.8	21.1	22.1	46	..	6.7	..	3.0	0	0	31	0	0	0	0	0	0	0	11	19	1	0	0		
	0830	9	1007.3	1006.2	+0.2	29.5	24.6	22.3	26.8	66	+1	5.8	+1.2	13.9	0	1	30	0	0	0	0	0	0	0	11	19	1	0	0		
Tiruchirapalli	1730	"	1003.8	1002.7	..	30.9	26.4	24.5	30.5	69	..	5.6	..	18.8	0	10	21	0	0	0	0	1	5	12	11	2	0	0			
	0230	88	1005.3	995.3	..	27.8	22.7	20.0	23.8	63	..	5.5	..	54.5	0	26	5	0	0	0	0	0	0	0	31	0	0	0			
Coimbatore	0530	"	1005.6	995.6	..	27.1	22.6	20.2	23.8	66	..	6.7	..	27.0	0	20	10	0	0	0	0	0	0	0	1	28	1	0	0		
	0830	"	1006.6	997.1	-0.4	29.5	23.4	20.3	23.6	58	-1	6.4	+1.4	32.7	0	23	8	0	0	0	0	0	0	0	30	2	0	0			
Coimbatore (Peela- medu Aerodrome)	1130	"	1006.0	996.2	..	33.7	24.0	18.9	21.9	42	..	6.2	..	40.5	0	30	1	0	0	0	0	0	0	0	29	2	0	0			
	1730	"	1003.1	993.6	..	33.9	23.7	18.2	20.9	41	..	6.1	..	40.6	1	29	1	0	0	0	0	0	0	0	1	28	1	0	0		
Salem	2330	"	1006.7	996.8	..	28.9	22.8	19.7	22.7	57	..	4.9	..	41.0	0	29	1	0	0	0	0	0	0	0	1	28	1	1	0		
	0830	409	1007.6	962.3	0	25.5	22.2	20.6	24.0	74	-6	7.0	+2.1	20.5	0	18	13	0	0	0	0	0	0	0	13	16	2	0	0		
Kallakurichi	1730	"	1004.9	959.9	..	27.2	22.6	18.5	23.5	66	..	6.7	..	19.9	0	12	19	0	0	0	0	0	0	0	8	17	6	0	0		
	0830	127	1006.1	992.0	..	29.7	24.6	22.6	27.0	68	..	4.8	..	11.8	0	1	26	0	0	0	0	0	0	0	22	1	4	0	0		
Cuddalore	1730	"	1002.0	988.1	..	33.8	25.4	21.6	25.3	51	..	5.6	..	14.5	0	7	24	0	1	0	3	0	0	0	0	22	0	0	0		
	0530	12	1004.8	1003.5	..	27.4	24.6	23.3	28.7	79	..	7.1	..	1.2	0	0	9	0	0	0	0	0	0	0	2	14	6	1	8		
Vellore	0830	"	1006.2	1004.9	-0.4	29.7	25.3	23.4	28.6	69	0	6.9	+1.8	3.2	0	0	23	0	0	0	0	0	0	0	0	2	14	6	1	8	
	1130	"	1005.6	1004.3	..	34.1	26.1	22.3	27.3	51	..	5.3	..	5.5	0	0	28	0	0	0	0	0	0	0	1	18	8	1	3		
Madras	1730	"	1002.5	1001.2	..	32.9	26.9	24.2	30.5	63	..	6.2	..	6.3	0	0	25	0	0	0	0	0	0	0	10	2	9	4	0	6	
	0530	214	1005.9	1004.6	..	28.9	25.6	24.2	30.1	76	..	5.8	..	2.9	0	0	17	0	0	0	0	0	0	0	0	6	18	5	2	0	
Madras	0830	"	1005.8	982.0	-0.1	28.3	22.7	19.7	23.1	59	-8	6.3	+1.5	8.3	0	0	20	0	0	0	0	0	0	0	0	4	23	4	0	0	
	1130	"	1005.0	981.5	..	32.2	23.5	18.8	21.8	46	..	6.5	..	10.7	0	0	21	0	0	0	0	0	0	0	1	8	16	4	1	0	
Madras	1730	"	1001.9	978.5	..	32.7	23.4	18.2	21.3	44	..	7.3	..	13.8	0	1	19	0	0	0	0	0	0	0	0	1	8	16	4	1	0
	0230	16	1003.9	1002.2	..	28.2	24.4	22.5	28.																						

TABLE III.—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JULY, 1958 (ASADHA 10—SRAVANA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars.			Mean temperature in °C.			Cloud amount (Oktas)			Wind speed (km. p.h.)			No. of observations																					
			At mean sea level or height in ft.m. of nearest standard isobaric level			At station level			Departure from normal			Departure from normal			Mean amount			Wind direction			N		NE		E		S		SW		W		NW		Calm	Variable
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28						
Madras State (contd.)	1130	16	1005.1	1003.4	..	33.1	25.0	20.9	25.1	51	..	5.9	..	23.5	0	20	11	0	0	0	0	3	22	6	0	0	0	0	0	0						
Madras (contd.)	1730	"	1002.2	1000.5	..	32.0	25.6	22.5	27.6	60	..	7.3	..	13.9	0	6	25	3	1	2	6	3	5	9	2	0	0	0	0	0						
Madras (Nungambakkam), Coastal Mysore—Karwar	2330	"	1005.4	1003.7	..	28.5	25.3	23.8	28.4	77	..	7.0	..	12.0	0	0	31	1	0	0	3	9	11	6	2	0	0	0	0	0						
0830	6	1005.4	1004.7	..	29.3	24.3	21.9	25.0	65	..	6.8	..	8.6	0	0	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
0830	4	1007.4	1006.9	0	26.8	25.2	24.5	30.4	87	..	8.0	..	9.6	0	1	29	1	0	0	0	0	0	0	0	0	0	0	0	0	0						
Honavar	1730	"	1005.8	1005.4	..	27.5	25.8	24.6	30.9	83	..	7.7	..	22.0	0	7	23	1	0	0	0	0	0	0	0	0	0	0	0	0						
Honavar	0830	26	1007.7	1004.8	-0.5	25.7	24.8	24.4	30.8	93	+2	7.8	+0.8	4.5	0	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0						
Honavar	1730	"	1006.4	1003.4	..	27.1	25.4	24.7	31.0	87	..	7.6	..	5.9	0	0	27	0	0	0	0	0	0	0	0	0	0	0	0	0						
Mangalore	0230	22	1007.2	1004.7	..	25.6	24.6	24.1	30.0	92	..	7.0	..	12.1	0	19	7	6	0	0	1	0	1	3	16	5	5	0	0							
Mangalore	0530	"	1007.1	1004.6	..	25.6	24.6	24.0	30.0	91	..	7.5	..	14.6	0	7	23	0	1	3	1	1	2	20	2	1	0	0	0							
Mangalore	0830	"	1008.7	1006.2	+0.3	26.2	25.0	24.4	30.7	90	0	7.2	+0.2	10.2	0	2	28	2	2	1	0	0	0	0	0	0	0	0	0							
Mangalore (Bajpe Aerodrome)	1130	"	1008.8	1006.3	..	27.8	25.8	25.0	31.7	85	..	6.8	..	10.7	0	2	29	1	0	0	0	0	0	0	0	0	0	0	0							
Mangalore (Bajpe Aerodrome)	1730	"	1006.8	1004.3	..	27.6	25.5	24.6	31.0	84	..	7.5	..	12.8	0	3	27	1	0	0	0	0	0	0	0	0	0	0	0							
Mangalore (Bajpe Aerodrome)	2330	"	1009.0	1006.5	..	26.2	25.1	24.7	30.9	91	..	6.8	..	13.2	0	7	20	0	0	0	0	0	0	0	0	0	0	0	0							
Mangalore (Bajpe Aerodrome)	0530	103	1007.1	995.7	..	24.4	23.9	23.6	28.3	96	..	7.5	..	6.8	0	3	11	1	0	0	0	0	0	0	0	0	0	0	0							
Mangalore (Bajpe Aerodrome)	0830	"	1008.6	997.0	..	25.3	24.6	24.1	29.9	94	..	7.3	..	11.8	0	2	23	1	1	2	1	0	0	0	0	0	0	0	0							
Mysore (North) Bidar	1730	"	1007.1	995.4	..	26.4	25.0	24.3	30.5	88	..	7.1	..	15.6	0	10	18	1	0	0	0	0	0	0	0	0	0	0	0							
Bidar	0830	664	1003.0	930.5	..	22.7	21.4	20.7	24.6	89	+7	7.9	+2.3	24.4	0	27	4	0	0	0	0	0	0	0	0	0	0	0	0	0						
Gulbarga	0830	458	1004.5	953.7	-0.3	24.6	22.4	21.4	25.5	83	+4	7.7	+1.9	28.3	0	28	3	0	0	0	0	0	0	0	0	0	0	0	0	0						
Gulbarga	1730	"	1000.5	950.5	..	27.8	22.6	20.2	23.5	66	..	7.9	..	35.9	0	29	1	0	0	0	0	0	0	0	0	0	0	0	0	0						
Bijapur	0830	594	1005.1	939.4	-0.3	23.8	22.1	21.0	25.0	85	+8	7.8	+1.7	14.6	0	2	29	0	0	0	0	0	0	0	0	0	0	0	0	0						
Bijapur	1730	"	1001.1	935.5	..	27.3	22.7	21.6	24.6	67	..	7.5	..	11.9	0	2	29	3	0	0	0	0	0	0	0	0	0	0	0	0						
Belgaum	0830	781	1006.7	921.0	+0.4	21.4	20.7	20.4	23.9	94	+4	7.7	+1.9	28.3	0	28	3	0	0	0	0	0	0	0	0	0	0	0	0	0						
Belgaum	1730	"	1005.3	919.9	..	22.1	20.9	20.5	23.8	90	..	..	..	7.6	0	0	31	0	0	0	0	0	0	0	0	0	0	0	0	0			
Belgaum (G.T.O.)	0830	753	1006.4	923.7	0	21.9	21.0	20.5	24.3	93	+5	2.8	+0.3	8.9	0	0	31	0	0	0	0	0	0	0	0	0	0	0	0	0						
Belgaum (Sambre Aerodrome)	1730	"	1004.7	922.3	..	22.8	21.8	20.6	25.4	89	..	7.8	..	14.7	0	1	30	0	0	0	0	0	0	0	0	0	0	0	0	0						
Belgaum (Sambre Aerodrome)	0530	747	1003.8	922.0	..	21.0	20.0	20.6	22.6	95	..	7.5	..	20.0	0	10	21	0	0	0	0	0	0	0	0	0	0	0	0	0						
Belgaum (Sambre Aerodrome)	0830	"	1004.7	923.1	..	22.0	21.2	21.1	24.6	93	..	7.3	..	21.0	0	10	21	0	0	0	0	0	0	0	0	0	0	0	0	0						
Gadag	1130	"	1004.5	923.4	..	25.8	24.4	23.9	29.6	89	..	7.4	..	30.1	0	24	7	0	0	0	0	0	0	0	0	0	0	0	0	0						
Gadag	0830	650	1006.3	934.8	+0.1	23.3	21.6	20.8	24.6	86	+3	7.5	+1.1	16.4	0	5	26	0	0	0	0	0	0	0	0	0	0	0	0	0						
Gadag (P.B.O.)	1730	"	1003.9	932.9	..	25.5	22.0	20.4	23.9	77	..	7.3	..	15.9	0	5	26	0	0	0	0	0	0	0	0	0	0	0	0	0						
Gadag (P.B.O.)	0530	661	1004.9	932.0	..	21.8	21.0	20.5	24.3	92	..	7.1	..	18.9	0	8	23	0	0	0	0	0	0	0	0	0	0	0	0	0						
Gadag (P.B.O.)	0830	"	1005.9	933.3	..	23.2	21.6	21.1	24.5	88	..	7.4	..	17.9	0	5	26	0	0	0	0	0	0	0	0	0	0	0	0	0						
Gadag (P.B.O.)	1130	"	1005.5	933.5	..	25.6	22.4	21.2	24.9	77	..	7.3	..	21.6	0	16	15	0	0	0	0	0	0	0	0	0	0	0	0	0						
Gadag (P.B.O.)	1730	"	1003.3	931.3	..	25.2	21.9	20.5	23.9	76	..	7.4	..	22.2	0	16	15	0	0	0	0	0	0	0	0	0	0	0	0	0						
Raichur	2330	"	1006.8	933.9	..	22.5	21.3	20.9	24.6	91	..	6.9	..	19.3	0	10	21	0	0	0	0	0	0	0	0	0	0	0	0	0						
Raichur	0830	400	1005.3	960.9	-0.1	24.7	22.7	21.7	26.1	82	+8	6.3	+1.5	13.9	0	3	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Raichur	1730	"	1001.2	957.7	..	28.8	23.3	20.4	24.0	63	..	7.0	..	16.0	0	6	25	1	0	0	0	0	0	0	0	0	0	0	0	0	0					
Mysore (South) Bellary	0830	449	1005.4	955.8	-0.3	26.0	22.5	20.8	23.8	74	+9	7.4	+1.5	8.7	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Chitaldrug	1730	"	1002.4	953.0	..	27.8	23.1	20.5	24.3	66	..	7.7	..	9.5	0	0	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Shimoga	0830	733	1006.7	926.2	+0.1	22.3	20.6	19.7	23.2	85	+4	8.0	+0.9	14.9	0	2	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Shimoga	1730	"	1004.1	924.4	..	24.6	21.2	19.4	22.7	74	..	7.2	..	14.1	0	1	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Balehonnur	0830	"	1005.2	942.4	..	24.5	22.1	21.0	24.9	81	..	7.2	..	5.8																						

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JULY, 1958 (ASADHA 10—SRAVANA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs.			Cloud amount (Oktas)			Wind speed (km. p.h.)			No. of observations												
			At station level			Departure from normal			Dew point			Relative humidity %			Departure from normal			Mean wind speed, km. per hour			Wind direction									
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28		
Mysore (South) —(Contd.)																														
Bangalore (Aero-drome) (contd.)	1730	897	1467.1	907.4	..	25.0	20.5	17.9	20.7	67	..	7.2	..	28.7	0	26	5	0	0	0	0	2	28	1	0	0	0			
Kerala	2330	"	1483.9	909.9	..	21.4	19.6	18.7	21.5	85	..	5.7	..	23.2	0	17	14	0	0	0	0	1	30	0	0	0	0			
Kozhikode	0530	5	1008.4	1007.9	..	25.0	24.2	23.9	29.5	94	..	7.6	..	10.5	0	5	23	1	8	3	0	0	5	7	4	3	0			
	0830	"	1009.6	1009.1	+0.2	25.4	24.6	24.3	30.3	93	+1	7.4	+0.3	8.2	0	3	25	6	7	4	0	0	1	7	3	3	0			
	1130	"	1010.0	1009.5	..	27.1	25.5	24.7	31.4	87	..	6.9	..	10.6	0	3	28	2	1	1	1	1	2	12	11	0	0			
	1730	"	1007.8	1007.3	..	27.6	25.8	25.0	31.7	86	..	6.8	..	11.3	0	0	31	2	1	0	0	1	1	16	10	0	0			
	2330	"	1010.0	1009.5	..	25.7	24.8	24.4	30.7	93	..	6.8	..	8.2	0	4	21	3	4	3	0	0	0	7	8	6	0			
Palghat	0830	97	1009.3	998.3	..	24.9	24.0	23.5	29.2	93	..	7.4	..	11.9	0	1	30	1	0	0	0	1	8	21	0	0	0			
	1730	"	1006.7	995.8	..	26.5	24.3	23.2	28.5	83	..	7.2	..	16.6	0	4	27	0	0	0	0	0	9	18	4	0	0			
Fort Cochin	0830	3	1009.6	1009.3	-0.5	26.8	25.2	24.6	30.6	87	0	7.0	+0.4	7.4	0	1	19	2	3	0	0	0	2	9	4	11	0			
	1730	"	1007.5	1007.2	..	27.5	25.5	24.7	31.1	85	..	6.6	..	9.2	0	2	25	1	1	0	0	0	2	10	13	4	0			
Cochin (Naval Air Station)	0230	3	1009.6	1009.3	..	25.3	24.4	24.0	28.5	92	..	6.2	..	5.6	0	1	16	1	2	2	1	0	1	5	5	14	0			
	0530	"	1009.3	1009.0	..	25.1	24.3	23.8	29.7	93	..	6.6	..	4.9	0	0	18	2	1	3	1	0	2	6	3	13	0			
	0830	"	1010.1	1009.8	..	26.5	25.1	24.3	30.8	87	..	6.7	..	6.2	0	2	21	4	2	3	0	0	0	11	3	8	0			
	1130	"	1010.3	1010.0	..	28.2	25.6	24.3	30.6	79	..	6.3	..	12.0	0	1	30	3	1	1	0	1	3	15	7	0	0			
	1730	"	1008.7	1008.4	..	27.9	25.2	24.1	29.8	80	..	7.0	..	12.7	0	5	23	1	0	1	0	0	1	8	17	3	0			
	2330	"	1010.3	1010.0	..	25.8	24.7	24.1	30.2	91	..	6.0	..	4.1	0	0	16	1	3	1	0	0	1	5	5	15	0			
Alleppey	0830	4	1009.5	1009.1	..	26.7	25.3	24.8	31.1	89	..	6.5	..	9.2	0	1	30	1	6	2	0	0	1	6	15	0	0			
	1730	"	1007.2	1006.8	..	28.2	25.9	24.9	31.4	82	..	6.5	..	16.7	0	2	29	1	0	0	0	0	1	3	26	0	0			
Punalur	0830	34	1009.7	1005.8	..	25.4	24.4	24.3	29.5	93	..	4.5	..	1.0	0	0	10	2	0	0	0	1	1	4	2	21	0			
	1730	"	1007.2	1003.4	..	28.7	25.0	23.1	28.3	72	..	5.1	..	5.3	0	0	25	3	1	0	0	0	0	7	14	6	0			
Trivandrum	0230	64	1008.5	1001.2	..	24.8	24.1	23.7	29.5	94	..	5.1	..	7.1	0	0	31	5	1	0	0	0	0	1	7	18	0			
	0530	"	1008.3	1001.0	..	24.5	23.9	23.6	29.2	95	..	6.4	..	6.7	0	1	29	5	1	0	0	0	0	4	20	1	0			
	0830	"	1009.7	1002.4	-0.2	25.9	24.8	24.3	30.5	91	+4	6.5	-0.3	6.6	0	1	29	0	1	0	0	0	0	5	24	1	0			
	1130	"	1009.5	1002.3	..	28.3	25.3	24.0	29.9	77	..	6.3	..	14.5	0	6	24	1	0	0	0	0	0	12	17	1	0			
	1730	"	1007.4	1000.1	..	27.6	24.9	23.9	29.5	80	..	6.4	..	14.2	0	3	28	0	1	0	0	0	0	3	8	19	0			
Trivandrum (Aero-drome)	0830	"	1009.9	1002.6	..	25.3	24.4	24.0	29.9	92	..	4.5	..	8.9	0	1	29	3	2	0	0	0	0	3	22	1	0			
Arabian Sea Islands	0530	2																												
Minicoy*	0830	"																												
	1130	"																												
	1730	"																												
Amini Dive*	0830	4																												
Hill Stations excluding Kashmir																														
Walong (R)	0830	"																												
	1730	"																												
Kohima	0830	1406	1482.1	857.5	..	21.9	20.5	20.0	23.1	89	..	7.2	..	..	0	0	31	7	1	6	3	3	1	1	9	0	0	
	1730	"	1477.4	857.1	..	23.6	21.9	20.8	25.2	85	..	7.7	..	..	0	0	31	5	1	4	0	0	1	1	5	0	0	
Aijal	0830	"			6.6	..	6.9	0	0	31	1	1	19	5	2	2	1	0	0	0	0		
	1730	"			..	..	..	..	..	..	..	7.1	..	5.9	0	0	31	0	1	2	1	6	8	13	0	0	0
Shillong	0830	1500	1437.1	844.1	-0.3	22.0	19.8	18.8	21.5	82	+1	6.9	+0.2	0.6	0	0	3	0	0	0	0	1	0	2	0	0	28	0		
	1730	"	1414.5	841.9	..	22.2	19.8	18.6	21.3	81	..	6.9	..	0.2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	29	0
Gherrapunji	0830	1313	1440.3	862.7	-0.4	20.3	19.8	19.4	22.8	95	+5	2.1	-5.4	3.3	0	0	31	0	10	1	9	1	10	0	0	0	0	0	0	
	1730	"	1416.0	860.3	..	21.7	20.7	20.1	23.6	91	..	5.9	..	3.3	0	0	31	0	7	0	13	0	11	0	0	0	0	0	0	0
Darjiling (Raj-Bhawan)	0830	2127	1462.8	787.3	+2.4	18.3	17.7	17.3	19.8	94	+5	7.7	+0.6	0.5	0	0	4	0	0	0	0	1	1	2	27	0	0	0	0	
	1730	"	1440.5	785.3	..	17.8	17.3	17.1	19.4	96	..	7.6	..	0.6	0	0	5	0	0	2	2	0	0	1	0	26	0	0	0	0
Kalimpong	0830	1209	1494.2	878.7	+5.8	21.3	19.6	19.1	21.6	85																				

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JULY, 1958 (ASADHA 10—SAVANA 9, 1880 SAKA)

Division and station.	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C.			Vapour pressure in mbs.	Relative humidity %	Cloud amount (Octas)			Wind speed (km. p.h.)			No. of observations												
			At mean sea level	At or height in G.P.M. of nearest standard isobaric level	At station level	Dew point	Dry bulb	Wet bulb			Departure from normal	Mean amount	Departure from normal	Mean wind speed, Km. per hour	N	NE	E	SE	S	SW	W	NW	Calm	Variable					
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
Hill Stations, excluding Kashmir (contd.)																													
Lokpal . . .	0830	..	..	..	..	5·6	5·4	5·0	8·7	96	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mussooree . . .	0830	2042	1418·3	790·9	-1·5	17·7	17·5	17·3	19·8	97	+4	7·5	+0·5	2·6	0	0	22	4	1	0	3	8	4	0	2	9	0		
	1730	"	1399·4	789·4	..	19·1	18·6	18·2	20·7	95	..	7·6	..	1·9	0	0	19	0	0	0	4	10	5	0	0	0	12	0	
Simla . . .	0830	2202	1425·1	776·9	-0·1	17·4	16·6	16·1	18·1	92	+12	7·5	+1·2	2·5	0	0	26	2	3	2	6	5	4	1	3	5	0		
	1730	"	1405·8	775·5	..	18·6	17·9	17·6	20·0	94	..	7·6	..	2·8	0	0	29	2	3	0	3	7	5	3	6	2	0		
Dalhousie . . .	0830	1959	1379·9	794·9	..	19·0	18·0	17·4	19·6	91	..	3·2	..	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	
	1730	"	1361·0	793·8	..	20·7	19·5	18·9	21·9	90	..	2·5	..	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Dharamshala . . .	0830	1211	1464·2	875·1	..	23·1	21·1	20·4	23·6	85	..	7·1	..	2·5	0	0	26	3	2	7	5	2	1	6	0	5	0		
	1730	"	1449·2	873·6	..	24·9	22·8	21·7	26·1	81	..	6·7	..	2·5	0	0	26	5	0	3	1	4	7	5	1	5	0		
Abu . . .	0830	1195	1440·5	873·9	+0·7	20·5	20·2	19·9	23·6	97	+6	7·6	+0·5	9·2	0	2	23	0	1	1	0	1	12	8	1	6	0		
	1730	"	1439·1	873·6	..	22·9	21·4	19·8	24·3	87	..	7·4	..	3·2	0	0	16	2	0	0	0	3	8	3	1	15	0		
Pachmarhi . . .	0830	1075	1427·1	885·8	-0·4	21·5	20·9	20·6	24·5	95	+7	7·8	+0·6	12·0	0	2	26	0	0	0	1	1	0	23	3	3	0		
	1730	"	1411·4	883·6	..	23·3	21·6	21·1	24·5	87	..	7·4	..	11·1	0	2	29	0	1	2	0	1	0	23	4	0	0		
Mahabaleshwar . . .	0830	1382	1458·7	857·9	-0·4	18·0	17·9	17·8	20·4	99	+2	8·0	0	17·0	0	8	23	0	0	0	0	0	0	14	17	0	0		
	1730	"	1444·3	856·4	..	18·0	18·0	18·0	20·7	100	..	8·0	..	12·8	0	2	29	0	0	0	0	0	0	5	25	1	0	0	
Nandi Hills . . .	0830	..	..	..	..	17·0	17·0	17·0	19·4	100	..	8·0	..	35·0	0	29	2	0	0	0	0	0	0	3	25	3	0	0
Mercara . . .	0830	1152	1488·9	884·3	+0·8	18·4	18·2	18·2	20·7	96	+1	7·8	+0·2	16·4	0	6	25	0	0	0	0	0	0	1	17	13	0		
	1730	"	1473·4	882·5	..	19·1	18·8	18·7	21·6	97	..	7·5	..	15·5	0	2	29	0	0	0	0	0	0	0	16	15	0	0	
Kodaikanal . . .	0530	2343	3113·9	768·7	..	12·0	10·5	9·3	11·7	83	..	7·5	..	26·8	0	18	13	3	0	0	0	0	0	0	3	25	0	0	
	0830	"	3131·0	769·6	+0·7	13·5	11·5	10·0	13·3	81	+4	6·1	+0·3	20·0	0	11	20	1	0	0	0	0	0	0	3	27	0	0	
	1130	"	3140·7	769·9	..	15·7	13·1	11·3	13·8	76	..	7·0	..	20·3	0	14	16	1	0	0	0	0	0	1	3	25	1	0	
	1730	"	3120·1	768·3	..	14·3	12·3	10·9	13·3	82	..	6·8	..	19·4	0	10	20	1	0	0	1	0	0	0	3	25	1	0	
	2330	"	3131·7	769·9	..	12·4	10·7	9·4	11·8	84	..	6·8	..	28·9	0	20	11	3	0	0	0	0	0	0	0	4	24	0	
Cotacamund . . .	0830	2249	1488·7	777·5	+0·1	13·2	12·3	11·9	13·7	91	+2	6·6	-0·5	17·5	0	11	20	0	0	0	0	0	0	5	26	0	0		
	1730	"	1473·6	778·7	..	13·9	12·8	12·5	14·1	90	..	7·4	..	13·4	0	5	22	0	0	0	0	0	0	3	24	0	4		
Coonoor . . .	0830	1747	1484·6	824·9	..	18·6	15·1	12·8	14·6	69	0	4·6	-1·8	7·6	0	1	30	2	0	0	1	1	18	6	3	0	0		
Sikkim—Lachen*	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Tibet																													
Yatung (Chumbi) .	0830	..	..	..	..	15·7	14·8	14·3	16·5	92	+5	5·1	+0·8	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lhasa . . .	0830	3685	3089·6	653·3	..	15·6	12·0	9·8	11·9	69	..	4·3	..	2·5	0	0	19	1	3	1	4	0	1	6	3	12	0		
Ceylon—Colombo . . .	0830	7	1010·1	1009·3	+0·1	28·6	24·5	23·7	29·1	78	-6	5·7	-0·5	12·1	0	1	29	1	0	0	0	0	0	2	15	12	0	1	0
Trincomalee . . .	0830	3	1007·8	1007·4	+0·6	28·9	23·0	22·6	27·4	69	-7	5·4	+1·3	23·0	0	22	9	0	0	0	0	0	0	31	0	0	0	0	
Batticaloa . . .	0830	3	1008·0	1007·7	..	29·8	24·7	22·2	26·8	63	..	5·9	..	19·3	0	20	11	0	0	0	2	1	26	1	1	0	0		
	1730	"	1005·5	1005·1	..	30·3	25·7	23·6	29·2	69	..	2·1	..	18·9	0	16	15	1	1	3	14	6	1	3	2	0	0		
Hambantota . . .	0830	15	1009·3	1007·6	+0·6	26·7	24·5	24·1	29·8	84	-1	4·1	+0·1	20·9	0	20	11	0	0	0	0	0	0	30	1	0	0	0	
	1730	"	1006·6	1004·9	..	27·9	24·8	23·5	28·9	80	..	5·4	..	24·4	0	27	4	0	0	0	0	0	0	28	3	0	0	0	
Mannar . . .	0830	4	1008·3	1007·9	..	28·6	25·7	24·4	31·0	73	..	6·1	..	14·9	0	4	27	0	0	0	0	0	0	2	29	0	0	0	
	1730	"	1005·5	1005·2	..	28·9	25·8	24·5	30·8	77	..	6·5	..	18·3	0	17	14	0	0	0	0	0	0	5	26	0	0	0	
Hydrometeorological Observatories Darmodar Catchment																													
Bokaro . . .	0830	242	998·5	971·9	..	28·7	25·7	24·4	30·5	78	..	6·8	..	9·7	0	3	28	1	0	13	3	2	3	0	4	0	5		
	1730	"	995·5	969·0	..	29·6	25·7	24·0	29·8	74	..	7·2	..	10·7	0	5	25	2	1	4	11	1	1	4	3	1	3		
Hazaribagh . . .	0830	615	997·6	930·7	..	26·1	23·7	22·6	27·4	82	..	3·5	..	7·0	0	0	27	0	2	10	5	3	1	2	1	6	4	0	
	1730	"	994·3	927·																									

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JULY 1958 (ASADHA 10—SRAVANA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C.			Cloud amount (Oktas)		Wind speed (Km. p.h.)			No. of observations															
			At mean sea level or height in g.p.m. of nearest standard isobaric level			At station level			Departure from normal			Relative humidity %		Departure from normal		Mean wind speed, Km. per hour			Wind direction										
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
Hydrometeorological Observatories—(contd.)																													
Mahanadi Catchment—(contd.)																													
Khijrawan +	0830	..	..	..	..	..	25.9	24.0	23.1	28.3	85	..	6.6	..	6.4	0	0	23	2	0	1	0	1	15	3	0	1	1
	1730	..	..	..	..	..	26.6	24.3	23.2	28.6	82	..	5.7	..	6.7	0	1	22	0	1	2	1	0	13	5	1	1	0
Sonepur	0830	..	..	..	..	..	27.5	25.7	24.9	31.4	86	..	..	..	10.2	0	0	27	0	1	4	1	0	16	5	0	4	0
Ginabahar	0830	..	..	..	..	..	26.2	24.4	23.5	29.1	87	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhimkund†	0830	..	..	..	..	..	27.9	25.4	24.2	30.4	81	..	8.0	..	5.3	0	0	21	1	0	0	6	1	10	1	2	1	0
Narbada Catchment							27.7	25.6	24.6	31.0	84	..	8.0	..	5.3	0	0	21	0	0	2	6	4	7	1	1	1	0	
Punasa	0830	..	..	..	..	..	26.5	24.5	23.6	29.1	85	..	..	..	2.2	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	..	29.0	24.8	22.9	27.8	71	..	..	..	2.1	..	..	..	..	..	..	..	..	..	..	..	..	..
Bagra Tawa	0830	..	..	..	..	..	26.1	24.3	23.2	29.0	85	..	..	..	6.7	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Thikri	0830	..	..	..	..	..	27.2	25.6	25.0	31.4	88	..	7.0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sabarmati Catchment							25.5	23.6	22.8	27.6	84	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Jhadol	0830	..	..	..	..	..	27.5	25.1	24.1	29.8	82	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dharoi	0830	..	..	..	..	..	30.9	25.5	23.0	28.2	65	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ganga Catchment							19.5	18.5	18.0	20.7	91	..	7.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mukhimpur	0830	..	..	..	..	..	20.2	18.8	18.6	20.8	88	..	7.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tehri	0830	..	..	..	..	..	26.2	23.9	23.0	28.1	83	..	6.8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1130	..	..	..	..	..	29.6	24.5	22.4	27.0	66	..	6.7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gandak Catchment							29.6	24.6	22.4	27.3	67	..	6.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gorkha	0830	..	..	..	..	..	22.9	22.0	21.7	25.7	99	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	..	25.1	22.8	21.6	26.2	82	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pokhara	0830	..	..	..	..	..	25.4	23.3	22.4	27.1	84	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	..	26.1	24.0	23.0	28.3	84	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Nawakot	0830	..	..	..	..	..	24.5	23.3	22.8	27.9	91	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	..	25.9	24.3	23.7	29.1	87	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Jomosom	0830	..	..	..	..	..	19.0	14.9	12.4	14.7	67	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	..	19.6	15.6	13.4	15.5	68	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Timure	0830	..	..	..	..	..	20.8	18.8	18.1	20.5	83	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	..	22.1	19.4	18.3	20.8	78	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gogra Catchment (Trans-Himalayan Region).							22.2	21.1	20.6	24.2	90	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Daiilekh	0830	..	..	..	..	..	23.8	22.2	21.6	25.5	86	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gogra Catchment							19.5	18.6	18.3	20.9	94	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dandeldhura	0830	..	..	..	..	..	20.6	19.5	19.2	22.0	91	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sallyana (R)	0830	..	..	..	..	..	23.8	22.2	21.6	25.5	86	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	..	..	..	..	..	19.5	18.6	18.3	20.9	94	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Butwal	0830	..	..	..	..	..	29.0	26.0	24.6	31.5	77	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	..	29.5	26.8	26.0	33.1	80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bagmati Catchment							146	1001.1	984.9	7.1	..	0.5	0	0	5	0	1	1	0	2	0	0	26	0
Katmandu*	0830	1333					29.1	26.8	25.6	33.1	80	7.3	..	0.5	0	0	5	0	0	0	0	2	1	2	0	26
	1130						29.1	26.8	26.0	34.5	83	7.5	..	0.8	0	0	8	0	0	1	1	2	0	1	3	23
	1730						27.8	25.9	25.2	31.6	86	7.0	..	2.5	0	0	17	0	1	0	1	0	6	6	3	14
Barahkshetra	0830	20.9	19.6	19.1	21.8	89	7.3	..	4.9	0	0	22	0	0	0	0	2	0	10	9	1
	1130	23.0	21.2	20.4	24.0	85	6.8	..	2.1	0	0	16	2	2	1	0	0	2	0	1	15
	1730	20.4	19.2	18.7	21.4	89	6.8	..	2.1	0	0	16	2	2	1	0	0	7	3	1	15
Angbung	0830	..	..	..	..	..</td																						

TABLE III.—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JULY 1958 (ASADHA 10—SRAVANA 9, 1880 SAKA)

**MONTHLY MEANS OF UPPER WINDS,
JULY 1958 (ASADHA 10—SAKANA 9, 1880 SAKA)**

During the month, observations of velocity and direction of upper winds were made at 55 stations in India. Out of these, at 43 stations all the observations were taken by means of pilot balloons and at 12 stations some observations were made by means of pilot balloons while the other observations by the radiowind method. Particulars of the stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the table overleaf. All radiowind ascents have been indicated by means of an asterisk (*) against the scheduled hours.

Data from ascents made at the scheduled time or within two hours on either side of the scheduled times of regular observations have been used for averaging.

Data up to 9.0 km. a.m.s.l. are given under Table IV and data above 9.0 km. a.m.s.l. under Table V.

In Tables IV and V :

n—represents the number of observations;

V—represents the mean wind speed in knots irrespective of direction;

v—represents the resultant mean velocity in knots,

D—represents the direction of the resultant mean wind in degrees East of North.

Mean and resultant winds are given in this publication for the following heights :

Surface, 0.15 km. a.g., 0.3, 0.6, 0.9, 1.5, 2.1, 3.0, 3.6, 4.5, 5.4, 6.0, 7.2, 9.0, 10.5, 12.0, 14.1, 16.2, 18.0, 21.0, 24.0, 27.0, 30.0, 33.0 and 36.0 km. a.m.s.l. Of these the levels 1.5, 3.0, 5.4, 7.2, 9.0, 12.0, 14.1 and 16.2 km. a.m.s.l. are considered as the best approximations to the standard pressure levels 850, 700, 500, 400, 300, 200, 150 and 100 mb. respectively.

PARTICULARS OF PILOT BALLOON AND RAWIN STATIONS IN INDIA

No. Station	Lat. N.	Long. E.	Height of Anemometer head a.m.s.l. in metres	Date of opening	Approximate times of flight (IST)			
1 Agartala	23°53'	91°15'	17	28th November 1951	0530	1730	2330	
2 Ahmedabad	23°04'	72°38'	61	19th May 1928	0530	1730	2330	
3 Amausi	26°45'	80°53'	132	20th November 1950	0530	1730	2330	
4 Ambala	30°23'	76°46'	279	1st April 1941	0530	1730	2330	
5 Amritsar	31°38'	74°52'	243	21st June 1957	0530*	1730*		
6 Anantapur	14°41'	77°37'	364	12th February 1946	0530	1730	2330	
7 Asansol	23°41'	86°59'	135	29th May 1942	0530	1730	2330	
8 Bagdogra	26°38'	88°19'	140	7th June 1953	0530	1730	2330	
9 Bairagarh	23°17'	77°21'	532	26th February 1943	0530	1730	2330	
10 Bamrauli	25°27'	81°44'	103	28th February 1930	0530*	1130	1730*	2330
11 Bangalore	12°58'	77°35'	936	19th May 1915	0530	1730	2330	
12 Barcilly	28°22'	79°24'	180	12th January 1943	0530	1730		
13 Begumpet	17°27'	78°28'	543	1st September 1929	0530	1730	2330	
14 Bhagalpur	25°14'	86°57'	61	19th May 1950	0530	1730		
15 Bhubaneshwar	20°15'	85°50'	55	5th December 1942	0530	1730	2330	
16 Bhuj	23°15'	69°48'	111	14th September 1937	0530	1730	2330	
17 Bikaner	28°00'	73°18'	229	18th October 1946	0530	1730	2330	
18 Chikalthana	19°51'	75°24'	583	7th October 1951	0530	1730	2330	
19 Cochin†	09°56'	76°14'	3	16th March 1942	0530	1730	2330	
20 Darjeeling	27°03'	88°16'	2115	21st May 1956	0530	1730		
21 Dum Dum	22°39'	88°27'	13	14th May 1921	0530*	1130	1730*	2330
22 Gadag	15°25'	75°38'	650	3rd May 1943	0530	1730	2330	
23 Gannavaram	16°32'	81°48'	31	8th April 1942	0530	1730	2330	
24 Gauhati	26°05'	91°43'	51	12th March 1955	0530*	1130	1730*	2330
25 Gaya	24°45'	84°57'	119	19th March 1937	0530	1730	2330	
26 Gopalpur	19°16'	84°53'	24	15th February 1916	0530	1730	2330	
27 Gorakhpur	26°45'	83°22'	83	5th January 1943	0530	1730		
28 Gwalior	26°14'	78°15'	208	7th May 1938	0530	1730	2330	
29 Imphal	24°51'	93°58'	815	8th March 1952	0530	1730	2330	
30 Jabalpur	23°10'	79°57'	402	30th July 1928	0530	1730	2330	
31 Jagdalpur	19°05'	82°02'	562	25th March 1948	0530	1730	2330	
32 Jaipur	26°49'	75°18'	404	6th June 1953	0530	1730		
33 Jamshedpur	22°49'	86°11'	147	23rd July 1942	0530	1730		
34 Jharsuguda	21°55'	84°05'	240	1st May 1944	0530	1730	2330	
35 Jodhpur	26°18'	73°01'	229	15th October 1934	0530*	1130	1730*	2330
36 Madras	13°00'	80°11'	29	8th April 1926	0530*	1130	1730*	2330
37 Mangalore	12°52'	74°51'	40	4th June 1928	0530	1730	2330	
38 Minicoy	08°18'	73°00'	16	14th April 1941	0530	1730	2330	
39 Mohanbari	27°29'	95°01'	112	1st June 1948	0530	1730	2330	
40 Mussoorie	30°27'	78°05'	2050	3rd November 1955	0530	1730		
41 Nagpur	21°06'	79°03'	316	23rd April 1943	0530*	1130	1730*	2330
42 Nanpara	27°50'	81°30'	142	23rd April 1957	0530	1730		
43 New Delhi	28°35'	77°12'	227	28th October 1936	0530*	1130	1730*	2330
44 Poona	18°32'	73°51'	593	5th January 1925	0530	1730	2330	
45 Port Blair	11°40'	92°43'	93	29th October 1945	0530*	1130	1730*	2330
46 Raipur	21°14'	81°39'	308	15th July 1944	0530	1730	2330	
47 Raxaul	26°59'	84°51'	83	28th October 1957	0530	1730		
48 Santa Cruz	19°07'	72°51'	14	14th May 1933	0530*	1130	1730*	2330
49 Tezpur	26°37'	92°47'	79	12th August 1932	0530	1730	2330	
50 Tiruchirapalli	10°46'	78°43'	96	22nd June 1936	0530	1730	2330	
51 Trivandrum	08°29'	76°57'	73	8th December 1928	0530*	1130	1730*	2330
52 Udaipur	24°35'	73°42'	587	24th June 1947	0530	1730	2330	
53 Vengurla	15°52'	73°38'	8	22nd November 1941	0530	1730	2330	
54 Veraval	20°54'	70°22'	17	13th October 1941	0530*	1130	1730*	2330
55 Visakhapatnam	17°43'	83°14'	10	24th September 1928	0530	1730	2330	

*Radiowind ascents.

†Naval Meteorological Office.

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

July 1958 (Asadha 10—Sravana 9, 1880 Saka)

Station	AGARTALA								AHMEDABAD																
	0530				1730				2330				0530				1730				2330				
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
	Ht. in Km.																								
Surface . . .	31	4.7	4.5	138	31	4.5	3.9	158	31	4.5	4.5	137	31	4.8	4.2	235	31	7.9	5.1	248	31	7.2	5.7	240	
0.15 a.g. . .	30	13.4	13.4	148	31	11.6	10.5	171	31	15.2	14.0	153	29	12.5	11.5	234	31	12.7	9.8	242	27	16.6	14.4	242	
0.3 a.m.s.l. . .	30	17.9	17.0	159	31	12.9	12.7	172	31	18.0	17.1	167	29	15.2	14.0	235	31	15.4	12.2	241	27	19.2	17.0	242	
0.6 „ „ .	29	17.3	16.5	164	31	15.9	15.3	175	31	18.9	18.2	174	27	20.7	19.2	249	30	16.6	13.8	249	27	24.2	22.7	253	
0.9 „ „ .	29	15.7	14.7	164	30	16.9	16.0	173	31	17.4	16.7	176	23	22.9	20.0	260	29	18.1	15.8	252	23	22.8	21.3	252	
1.5 „ „ .	28	13.4	11.7	161	27	15.7	15.2	168	29	15.2	14.1	175	14	20.0	13.5	257	20	19.1	16.3	249	16	16.4	13.4	250	
2.1 „ „ .	27	12.2	10.1	159	27	16.4	15.6	168	25	12.7	11.4	170	5	17.2	5.4	165	10	13.1	7.2	227	8	10.1	1.9	114	
3.0 „ „ .	22	10.3	7.3	156	16	13.6	12.3	165	20	11.9	10.5	163	4	13.5	13.5	114	7	13.6	1.9	171	5	13.6	11.0	117	
3.6 „ „ .	18	9.5	6.4	150	11	12.3	9.7	163	11	10.8	9.2	145	3	10.7	10.6	113	4	16.3	9.6	186	1	17.0	17.0	110	
4.5 „ „ .	16	8.3	5.3	135	7	10.1	8.6	106	4	12.2	11.5	133	1	11.0	11.0	120					1	22.0	22.0	090	
5.4 „ „ .	12	8.3	5.1	135	6	10.2	8.8	111	4	16.5	16.1	134													
6.0 „ „ .	9	9.7	6.5	103	6	8.8	8.2	108	4	15.7	15.2	134													
7.2 „ „ .	7	15.3	9.8	086	1	7.0	7.0	115	1	7.0	7.0	040													
9.0 „ „ .	4	20.7	17.9	084	1	5.0	5.0	145																	
Station	AMAUSI								AMBALA																
Time in I.S.T.	0530				1730				2330				0530				1730				2330				
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Ht. in Km.																									
Surface . . .	30	4.2	2.7	100	31	5.9	2.7	105	31	2.5	1.9	093	31	4.4	3.9	113	31	4.3	2.7	142	31	4.3	3.7	126	
0.15 a.g. . .	23	12.2	8.7	095	29	9.7	5.8	098	31	10.3	6.8	100	30	12.4	10.5	116	31	8.7	5.0	135	31	12.4	10.3	134	
0.3 a.m.s.l. . .	23	12.6	9.7	100	29	10.1	6.1	098	31	10.6	7.4	105	30	7.4	6.2	109	31	6.4	4.0	142	31	6.4	5.3	123	
0.6 „ „ .	22	17.2	10.9	118	29	11.6	7.8	102	31	12.0	9.0	112	30	13.7	11.4	133	31	9.3	5.4	137	31	12.7	10.6	140	
0.9 „ „ .	21	13.4	7.3	118	27	12.9	8.7	103	29	11.4	7.9	122	29	13.5	10.2	139	31	8.9	5.3	146	30	11.0	8.6	145	
1.5 „ „ .	19	11.8	6.7	102	24	13.3	7.4	109	26	10.4	5.9	125	28	11.9	5.7	163	28	8.1	2.5	160	30	10.0	5.1	156	
2.1 „ „ .	18	10.4	6.2	090	21	12.0	6.9	115	13	11.3	6.6	123	25	9.1	1.3	136	25	8.8	0.6	312	28	10.9	4.2	141	
3.0 „ „ .	11	8.4	3.4	055	14	8.6	5.8	122	7	6.7	1.4	342	18	9.7	2.7	030	23	10.3	2.1	344	25	11.7	0.9	052	
3.6 „ „ .	7	7.0	4.9	018	11	8.3	4.7	119	2	6.5	6.1	335	10	11.9	7.5	004	23	10.2	1.8	321	15	8.3	1.4	186	
4.5 „ „ .	4	5.7	4.0	019	6	8.8	4.5	090					6	8.2	3.0	327	14	8.8	2.7	323	6	5.7	1.2	176	
5.4 „ „ .	1	9.0	9.0	080	4	11.2	10.5	080					3	6.3	3.0	256	11	9.1	2.9	251	5	5.4	3.3	195	
6.0 „ „ .	1	12.0	12.0	100	4	12.8	11.7	076					3	11.0	6.7	231	9	9.4	2.6	222	5	6.6	1.6	234	
7.2 „ „ .					1	7.0	7.0	085					2	8.0	7.7	209	6	13.8	6.2	249	1	15.0	15.0	280	
9.0 „ „ .													1	10.0	10.0	300	2	18.5	7.1	193					

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

July 1958 (Asadha 10—Sravana 9, 1880 Saka)

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9·0 Km. above mean sea level

July 1958 (Asadha 10—Sravana 9, 1880 Saka)

Station	BAIRAGARH								BAMRAULI															
	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	10.6	7.5	275	31	7.4	6.2	257	31	4.7	1.1	067	31	4.5	1.0	084	31	6.7	1.1	090	31	4.2	1.1	102
0.15 a.g. . .	28	15.1	11.3	271	31	16.0	13.4	263	24	9.7	1.8	059	27	8.4	2.1	085	29	11.2	2.3	051	27	12.3	4.4	086
0.3 a.m.s.l. . .									24	9.7	1.9	048	27	8.8	2.4	077	29	11.4	2.1	055	27	12.4	4.3	087
0.6 " . .	28	14.6	11.3	270	31	14.4	11.9	255	24	9.1	1.9	074	26	9.5	3.4	075	29	11.4	2.3	064	27	13.5	5.7	111
0.9 " . .	27	17.0	13.3	274	31	20.4	16.4	272	24	9.4	2.7	081	23	9.3	3.5	070	29	11.4	3.7	069	25	13.0	7.1	112
1.5 " . .	24	18.4	14.1	273	24	18.5	13.6	287	24	10.4	4.5	084	17	11.4	6.6	078	28	10.7	4.0	106	18	11.2	7.2	125
2.1 " . .	17	15.6	10.8	283	17	11.5	4.2	289	23	9.9	4.7	062	13	13.4	7.1	078	27	8.9	3.7	112	10	8.7	5.1	133
3.0 " . .	10	13.6	6.7	304	7	8.9	5.2	072	23	9.4	6.1	072	4	12.5	10.9	117	24	9.2	5.0	092	4	7.0	0.2	115
3.6 " . .	7	10.4	3.2	350	3	8.7	8.2	078	23	8.6	5.7	090	2	7.5	6.7	092	24	9.6	7.1	090				
4.5 " . .	4	11.5	9.9	085					21	9.9	7.4	093	1	5.0	5.0	115	24	8.7	6.0	089				
5.4 " . .	2	15.5	13.2	051					21	10.5	8.9	104					24	9.0	7.6	091				
6.0 " . .	1	20.0	20.0	070					20	13.0	11.0	104					24	9.5	8.4	090				
7.2 " . .									19	15.2	13.0	098					22	13.8	11.7	093				
9.0 " . .									19	18.6	16.7	082					19	15.8	13.3	077				
Station	BANGALORE								BAREILLY								BEGUMPET							
Time in I.S.T.	0530				1730				2330				0530				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	10.1	9.7	253	31	11.8	10.8	268	31	10.2	9.6	263	31	4.8	3.7	079	31	4.5	2.9	092	31	10.6	10.3	269
0.15 a.g. . .	21	17.6	17.4	259	31	19.4	18.5	267	31	17.3	17.0	258	30	11.7	8.7	092	31	8.3	5.2	089	23	18.9	18.7	269
0.3 a.m.s.l. . .													30	10.7	7.6	091	31	7.8	4.9	090				
0.6 " . .													28	16.3	11.9	124	31	11.4	7.0	096	23	13.7	13.5	265
0.9 " . .													28	17.5	11.0	122	31	11.9	6.6	102	22	23.9	23.8	278
1.5 " . .	20	30.5	30.2	276	31	24.1	23.7	272	30	28.2	28.2	276	25	12.8	10.4	116	28	12.6	5.9	122	17	30.4	30.1	286
2.1 " . .	11	82.1	31.6	285	23	27.8	27.6	282	24	30.5	30.4	285	22	14.6	8.8	110	24	13.1	7.5	126	13	30.4	30.4	286
3.0 " . .	9	25.6	25.2	285	12	28.2	27.7	284	15	21.9	21.1	286	17	12.1	6.5	103	22	12.2	7.4	116	8	22.6	22.5	280
3.6 " . .	5	14.4	13.6	283	7	27.1	26.9	289	11	16.6	15.4	286	12	12.0	4.2	107	19	13.0	5.6	126	5	19.4	18.4	283
4.5 " . .	1	9.0	9.0	200	2	27.5	26.4	281	7	13.9	12.7	268	8	8.7	4.3	124	15	12.6	7.3	115	3	16.7	15.6	300
5.4 " . .									5	10.6	7.7	251	4	6.7	3.3	230	11	10.8	4.7	108	1	12.0	12.0	260
6.0 " . .									1	10.0	10.0	175	3	5.7	2.4	272	9	7.9	1.8	102				
7.2 " . .													1	7.0	7.0	171	7	9.4	3.8	128				
9.0 " . .													1	10.0	10.0	165	5	6.8	1.0	090				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

July 1958 (Asadha 10—Sravana 9, 1880 Saka)

Station	BEGUMPET					BHAGALPUR					BHUBANESHWAR					
Time in I. S. T.	1730		2330			0530		1730			0530		1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	10.1	9.3	272	31	13.2	12.8	269	31	3.0	2.4	101	31	4.9	3.7	082
0.15 a.g. . .	27	16.7	15.3	276	24	21.2	20.7	254	31	10.4	8.0	117	30	10.9	8.4	087
0.3 a.m.s.l. . .									31	11.0	8.5	120	30	11.9	9.3	089
0.6 „ . .	27	14.0	12.6	276	24	13.3	13.0	260	26	13.2	10.3	128	29	12.5	10.5	101
0.9 „ . .	27	20.1	19.3	274	23	28.0	27.7	269	25	12.8	11.0	117	29	13.0	11.2	116
1.5 „ . .	25	25.9	25.3	277	20	36.1	35.9	280	22	10.9	8.6	104	23	11.7	10.3	136
2.1 „ . .	19	28.6	28.5	284	13	31.5	31.0	285	17	9.9	7.9	105	18	9.4	8.0	140
3.0 „ . .	5	23.2	23.1	288					13	7.8	5.2	118	9	6.9	5.5	120
3.6 „ . .	2	20.0	19.6	284					9	5.9	3.9	144	8	8.5	6.7	111
4.5 „ . .	1	34.0	34.0	290					6	6.3	4.9	114	5	9.4	7.5	097
5.4 „ . .									5	10.6	9.8	082	4	11.0	10.7	072
6.0 „ . .									5	8.0	7.6	073	3	15.3	15.1	071
7.2 „ . .									2	13.0	12.8	089				
9.0 „ . .																
Station	BHUBANESHWAR				BHUJ					BIKANER						
Time in I.S.T.	2330		0530			1730		2330			0530		1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	5.1	3.6	219	31	9.4	8.6	238	31	13.7	12.8	227	31	10.5	9.8	230
0.15 a.g. . .	28	13.3	9.8	220	30	18.8	16.7	247	31	22.3	20.1	241	29	19.4	18.3	237
0.3 a.m.s.l. . .	28	14.6	10.8	229	30	19.8	17.7	248	31	23.1	20.9	242	29	20.2	19.0	238
0.6 „ . .	28	16.1	11.2	238	30	25.2	22.7	255	30	25.7	21.7	247	27	26.0	23.5	245
0.9 „ . .	26	17.6	11.8	252	16	22.5	18.9	256	27	25.0	19.7	250	24	24.3	20.4	246
1.5 „ . .	18	16.8	10.8	278	5	16.6	7.7	120	14	19.8	6.4	247	10	17.7	3.3	213
2.1 „ . .	9	17.5	9.8	274	5	20.0	12.3	097	10	16.9	5.5	070	7	15.7	11.9	089
3.0 „ . .	2	16.5	15.3	296	4	17.3	10.2	128	5	14.6	9.0	112	5	17.8	14.2	097
3.6 „ . .	1	31.0	31.0	300					5	17.4	11.0	105	1	19.0	19.0	100
4.5 „ . .									3	20.3	20.3	119				
5.4 „ . .									1	19.0	19.0	105				
6.0 „ . .									1	19.0	19.0	095				
7.2 „ . .									1	13.0	13.0	090				
9.0 „ . .													2	11.0	9.7	119
													6	9.5	4.2	111
													2	7.5	5.8	222
													1	5.0	5.0	020

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

July 1953 (Asadha 10—Sravana, 9, 1860 Saka)

Station	BIKANER				CHIKALTHANA				COCHIN				
	2330		0530		1730		2330		0530		1730		
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	
Surface . . .	31	7.0	5.1	192	31	9.8	9.4	270	31	16.8	16.2	269	
0.15 a.g. . . .	31	14.4	11.0	197	29	17.7	16.9	266	30	19.9	18.7	270	
0.3 a.m.s.l. . . .	31	19.5	9.3	186					31	19.5	19.0	266	
0.6 " . . .	31	16.7	12.3	212									
0.9 " . . .	31	14.5	11.1	225	29	22.2	21.7	092	30	22.3	21.5	273	
1.5 " . . .	31	11.3	5.7	246	20	32.3	31.5	096	27	28.4	27.4	273	
2.1 " . . .	30	8.6	1.9	291	9	23.1	20.1	111	15	27.9	26.3	274	
3.0 " . . .	24	10.2	7.4	018	2	7.0	6.8	180	3	14.3	10.6	241	
3.6 " . . .	13	12.8	10.7	022	2	8.0	4.1	160	1	9.0	9.0	110	
4.5 " . . .	2	19.0	18.7	002						1	4.0	4.0	005
5.4 " . . .	1	18.0	18.0	005						1	9.0	9.0	055
6.0 " . . .										1	11.0	11.0	050
7.2 " . . .													
9.0 " . . .													

Station	COCHIN				DARJEELING				DUM DUM				
	2330		0530		1730		0530*		1130		1730*		
Time in I. S. T.	n	V	v	D	n	V	v	D	n	V	v	D	
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	
Surface . . .	31	2.9	2.0	307	31	1.5	0.8	054	31	2.1	0.8	107	
0.15 a.g. . . .	18	9.1	7.2	290	6	4.8	3.9	098	2	6.0	5.9	082	
0.3 a.m.s.l. . . .	18	12.1	10.9	287					31	8.6	3.9	164	
0.6 " . . .	18	18.0	17.2	289					31	9.8	4.1	175	
0.9 " . . .	18	21.4	20.6	293					31	9.9	4.5	175	
1.5 " . . .	18	26.4	26.1	299					31	10.0	5.0	165	
2.1 " . . .	10	27.4	26.9	299					31	9.9	4.6	158	
3.0 " . . .	2	27.5	27.5	286	5	6.8	6.5	094	1	6.0	6.0	095	
3.6 " . . .	1	21.0	21.0	280	3	7.0	6.4	095	1	12.0	12.0	115	
4.5 " . . .					3	6.0	4.2	120	1	6.0	6.0	120	
5.4 " . . .					2	6.0	5.3	179		30	10.1	7.0	125
6.0 " . . .					2	4.5	4.5	160		29	12.2	8.6	118
7.2 " . . .					1	6.0	6.0	040		29	13.1	10.2	116
9.0 " . . .									24	15.0	13.0	108	

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9-0 Km. above mean sea level

July 29, 1958 (Azadka 10—Gravanna 9, 1000 Seals)

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

July 1958 (Asadha 10—Sravana 9, 1980 Saka)

TABLE IV.—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

July 1958 (Asadha 10—Sravana 9, 1880 Saka)

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

July 1958 (Asadha 10—Sravana 9, 1880 Saka)

Station	JHARSUGUDA								JODHPUR															
	1730				2330				0530*				1130				1730*				2330			
Time in I. S. T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
	Ht. in Km.																							
Surface . .	31	4.8	2.5	215	31	3.7	2.7	211	29	6.4	5.2	231	31	9.2	6.8	215	31	8.2	5.9	225	31	5.5	5.0	218
0.15 a. g. .	23	12.6	5.4	238	18	11.9	5.6	208	29	9.2	7.0	233	30	15.5	11.9	221	31	10.5	7.4	223	31	15.8	13.5	216
0.3 a.m.s.l. .	23	11.6	5.6	232	18	9.2	5.3	206	29	8.4	6.5	235	30	14.1	10.3	230	31	9.6	6.1	226	31	12.2	9.9	211
0.6 „ .	23	14.3	5.6	252	18	15.4	5.9	236	29	13.9	10.5	237	30	15.2	12.2	227	31	12.1	8.1	227	31	18.5	14.6	219
0.9 „ .	22	16.3	3.6	253	17	16.0	4.8	257	29	18.0	13.5	238	30	15.7	12.1	223	31	14.2	8.8	227	31	19.1	14.6	226
1.5 „ .	17	15.3	5.8	265	13	13.4	2.4	251	29	14.6	8.2	234	21	15.0	6.6	219	31	13.2	7.2	235	26	14.7	9.2	245
2.1 „ .	11	15.1	0.3	260	8	13.4	0.4	257	29	11.6	1.5	274	11	9.9	5.9	049	31	11.7	2.9	284	15	10.4	0.8	255
3.0 „ .	5	9.2	3.8	030	6	12.3	6.0	091	29	11.0	5.6	037	9	11.8	7.6	053	29	11.9	5.7	010	13	10.8	7.7	044
3.6 „ .	3	8.0	4.1	065	4	10.7	7.1	085	29	12.7	7.8	035	7	13.7	9.8	063	28	13.4	7.6	017	7	14.7	13.4	036
4.5 „ .									28	14.8	10.5	046	4	21.7	13.3	074	27	14.6	10.2	022	4	15.7	11.8	046
5.4 „ .									28	13.9	10.4	065	3	21.3	10.6	067	26	13.4	8.4	029	2	12.0	10.9	075
6.0 „ .									28	13.6	10.6	074	3	19.0	13.3	084	25	12.7	7.5	035	2	13.5	12.0	080
7.2 „ .									26	14.4	12.0	082	2	11.0	8.9	089	22	11.4	7.9	072	1	16.0	16.0	105
9.0 „ .									26	15.2	12.8	091	1	17.0	17.0	090	19	15.0	12.3	086				
Station	MADRAS												MANGALORE											
Time in I. S. T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	7.9	7.5	256	31	11.4	10.9	271	31	9.6	2.5	220	31	7.1	4.8	223	31	8.7	7.6	271	31	7.7	7.4	270
0.15 a. g. .	31	11.3	10.7	258	31	16.0	15.2	271	31	11.8	3.6	239	31	13.9	10.2	228	27	14.8	13.8	268	31	15.6	15.2	267
0.3 a.m.s.l. .	31	14.2	13.5	259	31	16.7	16.1	268	31	11.8	3.5	243	31	15.9	12.8	244	27	16.9	16.3	268	31	17.2	16.5	269
0.6 „ .	31	19.5	19.0	272	31	18.3	17.7	269	31	14.0	10.7	260	31	19.7	17.6	259	26	21.4	20.8	269	29	21.1	20.6	274
0.9 „ .	31	25.0	24.4	281	31	19.9	19.5	273	31	17.0	15.6	269	31	21.0	19.9	267	22	23.8	23.4	277	28	24.3	23.5	280
1.5 „ .	31	29.7	29.1	289	30	25.6	24.8	282	31	21.8	21.1	272	31	21.5	21.0	278	13	23.3	23.1	285	18	23.7	23.0	286
2.1 „ .	31	27.5	27.1	288	28	28.0	27.3	284	31	24.8	24.3	275	29	22.5	22.2	284	7	30.0	29.7	293	11	24.5	24.4	285
3.0 „ .	31	25.2	24.9	281	24	26.6	26.5	281	31	29.2	28.7	280	11	22.4	22.3	289	2	19.0	18.9	299	7	23.4	23.4	285
3.6 „ .	31	23.8	23.6	277	13	21.5	20.4	282	31	28.0	27.4	280	1	19.0	19.0	265	1	17.0	17.0	270	6	24.8	24.5	286
4.5 „ .	31	22.7	22.4	273	8	17.1	14.7	276	31	25.8	24.9	277									1	24.0	24.0	275
5.4 „ .	31	19.3	18.1	273	3	11.3	11.0	244	31	21.9	20.6	276												
6.0 „ .	31	15.9	14.2	268	3	11.0	11.0	269	31	18.3	16.4	278												
7.2 „ .	31	11.8	4.7	274	2	3.0	1.3	323	31	11.7	7.3	277												
9.0 „ .	29	17.8	11.9	078	2	15.5	15.4	087	29	15.5	6.6	106												

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

July 1958 (Asadha 10—Sravana 9, 1880 Saka)

Station	MANGALORE				MINICOY								MOHANBARI											
	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	7.8	6.8	271	31	8.5	7.9	272	31	8.5	7.9	276	31	8.0	7.4	277	31	2.2	1.4	057	31	1.6	0.6	049
0.15 a.g.	29	14.4	13.2	265	31	14.8	13.9	267	31	16.6	15.5	273	30	14.8	13.7	273	16	7.1	5.4	054	31	4.7	1.7	163
0.3 a.m.s.l.	29	15.9	15.1	269	31	16.2	15.0	267	31	16.9	15.8	274	30	15.3	14.1	274	16	7.2	5.3	060	31	4.8	1.6	159
0.6 „	29	20.3	19.6	275	31	18.7	17.4	272	31	19.0	17.6	277	30	18.5	17.1	276	16	6.0	3.9	065	31	4.5	1.3	107
0.9 „	28	23.4	22.9	281	30	22.2	21.0	279	30	22.1	20.6	283	30	21.1	19.9	282	15	5.3	3.4	082	29	5.2	1.0	118
1.5 „	19	23.6	23.0	287	24	25.3	24.5	292	24	25.8	25.1	288	27	23.2	22.5	291	10	5.5	3.1	107	28	6.6	4.1	219
2.1 „	12	22.8	22.3	291	17	24.9	24.5	291	20	26.9	26.5	288	23	26.2	25.9	296	9	7.2	4.3	129	27	3.7	6.7	207
3.0 „	5	22.4	22.0	298	5	26.6	25.6	288	16	25.1	24.6	292	8	22.2	22.0	295	7	7.4	3.2	115	24	7.9	5.0	204
3.6 „	2	21.0	20.8	294	2	22.0	21.4	277	10	22.1	21.4	286	1	23.0	23.0	285	6	5.7	3.4	131	23	7.6	4.0	207
4.5 „	1	6.0	6.0	185	2	17.0	14.7	286	10	19.1	17.6	284	1	14.0	14.0	265	4	6.3	4.5	135	19	7.4	2.4	177
5.4 „	1	3.0	3.0	200					7	15.7	10.2	287					3	8.3	1.9	202	17	8.9	1.1	110
6.0 „	1	4.0	4.0	245					7	15.3	4.8	295					3	10.0	5.9	077	14	11.1	2.8	027
7.2 „									4	16.5	14.3	88					3	14.0	11.2	360	9	17.0	10.6	358
9.0 „									3	23.0	22.4	114					2	10.5	10.0	313	5	17.8	15.1	357
Station	MOHANBARI				MUSSOORIE								NAGPUR											
Time in I.S.T.	2330				0530				1730				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1.9	0.8	050	31	1.7	0.1	066	31	3.1	1.5	185	31	6.5	5.0	278	31	9.5	7.9	280	31	9.9	7.3	305
0.15 a.g.	27	6.1	3.1	085	2	1.0	0.9	015	8	7.6	2.8	030	31	16.0	12.3	268	27	15.7	13.2	279	31	15.6	12.5	277
0.3 a.m.s.l.	27	5.7	3.0	084																				
0.6 „	27	5.5	3.3	088													31	16.5	13.5	272	27	14.7	11.9	284
0.9 „	27	6.0	3.0	094													31	20.0	17.3	281	27	14.8	12.4	288
1.5 „	24	5.9	2.1	212													31	22.3	18.7	297	12	13.3	7.7	317
2.1 „	23	6.7	5.0	221	2	4.0	3.8	00+	8	6.1	0.9	329	31	19.3	14.5	302	6	13.0	4.1	350	30	18.2	12.8	293
3.0 „	16	5.7	3.9	211	2	5.5	5.3	347	7	5.3	1.3	13	31	15.6	10.4	309	3	9.7	9.5	079	30	17.6	11.8	300
3.6 „	9	5.3	3.3	203	2	6.0	3.1	179	6	7.2	0.9	066	31	15.7	7.7	320	1	19.0	19.0	075	30	17.4	10.3	307
4.5 „	6	6.4	5.2	187	1	14.0	14.0	110	1	5.0	5.0	070	30	14.3	4.9	335					30	13.6	5.5	335
5.4 „	5	5.0	3.6	210													30	12.4	3.6	066				
6.0 „	4	9.5	2.2	022													30	12.6	5.5	077				
7.2 „	1	5.0	5.0	210													29	13.9	10.0	089				
9.0 „																	26	17.8	15.9	085				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

July 1958 (Asadha 10—Sravana 9, 1880 Saka)

Station	NAGPUR				NANPARA				NEW DELHI															
	2330				0530				1730				0530*				1130				1730*			
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Ht. in Km.																								
Surface	31	7.1	6.0	268	31	4.5	3.8	093	31	4.8	3.5	114	31	4.7	1.5	106	31	6.7	1.9	097	31	6.1	4.3	101
0.15 a.g.	28	14.9	12.5	278	27	12.3	11.1	108	28	12.0	8.6	123	30	12.1	3.7	124	28	8.3	3.1	114	31	9.8	6.4	097
0.3 a.m.s.l.					27	13.0	12.3	113	28	12.7	9.2	122	30	11.6	3.7	122	28	8.1	2.3	117	31	1.0	6.5	097
0.6 „	28	17.4	14.7	282	26	19.1	18.2	117	28	13.1	9.8	123	30	12.0	2.9	138	28	9.4	6.0	115	31	9.0	3.8	107
0.9 „	27	19.8	17.5	284	25	21.1	18.9	114	28	13.5	10.4	126	30	12.2	2.8	138	27	10.8	3.2	110	31	8.7	4.5	102
1.5 „	26	20.7	14.8	297	22	17.7	14.7	111	23	13.9	10.2	122	30	11.2	3.1	115	24	11.2	3.6	096	31	9.1	2.3	083
2.1 „	20	17.6	9.7	306	13	14.2	12.3	107	22	14.1	9.8	117	30	10.6	3.9	195	19	12.5	5.1	112	31	10.3	1.9	031
3.0 „	10	14.1	4.2	339	10	9.0	8.2	123	17	16.4	11.2	123	30	10.7	4.4	181	14	9.4	2.0	106	31	11.0	3.4	026
3.6 „	2	13.5	11.7	063	8	8.5	6.7	115	13	11.6	8.2	134	30	11.2	4.4	072	10	9.6	3.7	093	31	10.7	3.5	019
4.5 „	1	4.4	4.0	140	6	11.3	1.8	103	7	7.4	3.4	113	30	9.3	3.2	071	9	8.8	5.7	098	31	9.7	2.9	015
5.4 „					3	10.7	9.4	108	4	10.2	1.4	145	29	10.2	3.0	067	7	11.3	8.3	100	30	10.1	3.3	053
6.0 „					3	11.7	10.4	119	2	15.5	5.9	318	29	9.7	4.0	082	6	12.2	8.6	127	30	10.9	4.7	071
7.2 „					1	17.0	17.0	095	1	13.0	13.0	120	29	11.8	9.4	114	4	9.0	3.3	142	31	10.8	2.3	076
9.0 „													28	10.3	6.2	120	2	17.0	15.3	105	30	11.2	5.1	099
Station	NEW DELHI				POONA								PORT BLAIR											
Time in I.S.T.	2330				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	4.6	2.3	132	31	4.5	4.4	267	31	5.9	5.6	262	31	4.7	4.4	258	31	8.0	7.9	228	31	12.7	12.6	228
0.15 a.g.	29	10.4	6.8	136	28	15.8	15.4	261	29	17.7	17.6	258	28	5.7	15.4	259	31	18.0	17.7	232	31	17.3	11.1	232
0.3 a.m.s.l.	3	9.0	5.2	129													31	19.5	19.2	233	31	18.6	18.4	232
0.6 „	29	11.3	7.1	142	28	8.4	8.4	261	29	10.8	10.7	266	28	8.2	8.1	259	31	23.2	22.7	237	31	20.3	20.0	235
0.9 „	29	11.3	5.8	145	28	19.6	19.2	262	29	20.4	20.3	262	28	19.1	18.9	262	31	25.7	25.2	242	31	21.1	20.8	237
1.5 „	28	10.1	2.4	143	22	27.1	26.5	267	23	31.3	30.8	265	19	27.1	26.7	269	30	22.7	21.8	247	30	21.2	20.8	241
2.1 „	23	8.7	1.8	057	8	24.7	24.5	278	10	29.8	28.4	269	6	27.2	27.0	272	30	22.1	21.3	254	21	20.9	20.2	246
3.0 „	18	8.2	4.2	062	1	17.0	17.0	290	5	21.2	17.9	276	2	20.0	20.0	285	29	20.9	20.5	259	10	18.2	17.5	253
3.6 „	11	8.3	4.6	090					3	16.7	10.4	268					29	20.0	19.0	266	8	17.1	16.5	262
4.5 „	5	7.2	3.9	335													28	18.9	16.2	268	6	16.0	15.4	273
5.4 „	2	3.5	2.8	346													28	17.5	14.3	256	5	15.4	15.1	265
6.0 „	2	3.0	3.0	237													28	19.1	14.9	251	3	19.0	18.8	269
7.2 „																	28	15.9	5.8	239				
9.0 „																	22	18.9	15.3	072				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9·0 Km. above mean sea level

July 1958 (Asadha 10—Sravana 9, 1880 Saka)

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9·0 Km. above mean sea level

July 1958 (Asadha 10—Sravana 9, 1880 Saka)

Station	TEZPUR								TIRUCHIRAPALLI								TRIVANDRUM							
Time in I.S.T.	1730				2330				0530				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1.2	0.2	089	31	1.3	0.3	164	31	14.1	14.0	270	31	22.0	21.6	270	31	21.2	21.2	270	31	5.9	5.0	316
0.15 a. g. .	31	6.3	1.8	116	28	8.3	2.8	201	31	18.6	18.4	270	29	23.1	22.5	272	22	19.5	19.4	271	30	9.9	8.9	309
0.3 a. s. l. .	31	6.9	1.7	105	28	8.1	2.8	209	31	21.5	21.3	271	29	24.0	23.6	273	22	21.7	21.6	272	30	12.3	11.4	307
0.6 „ .	31	7.7	1.9	154	28	7.6	3.1	230	31	29.9	29.7	272	29	25.5	25.3	271	22	29.7	29.4	271	30	18.2	17.3	302
0.9 „ .	30	8.0	2.6	195	28	8.6	3.3	233	31	31.2	30.6	274	29	24.8	24.6	270	22	26.8	26.3	276	30	24.2	23.5	298
1.5 „ .	29	9.9	6.8	216	23	9.3	4.5	206	31	24.2	23.7	275	29	22.9	22.4	271	22	19.0	18.4	281	29	28.4	27.8	296
2.1 „ .	27	11.5	8.6	211	18	8.8	3.8	226	31	21.5	20.8	282	29	24.1	23.3	273	20	16.5	16.0	282	27	29.4	28.9	297
3.0 „ .	24	9.9	5.2	206	14	9.2	2.5	216	28	21.2	20.8	285	22	23.8	23.1	275	14	19.3	18.8	293	26	25.3	24.7	287
3.6 „ .	21	8.9	2.6	194	8	6.3	4.9	106	23	18.3	17.8	285	20	23.3	22.5	278	4	15.5	14.9	283	26	23.4	22.6	281
4.5 „ .	16	6.7	3.2	126	7	11.9	8.9	090	12	18.1	17.0	278	13	20.7	19.6	278	2	19.0	18.8	248	26	19.3	17.3	275
5.4 „ .	12	5.9	3.7	122	6	15.3	11.4	076	4	14.7	12.7	262	7	23.1	22.5	278					26	15.5	12.3	262
6.0 „ .	11	5.7	4.0	100	5	20.4	19.0	095	3	11.7	10.3	250	6	18.0	17.2	280					24	12.1	7.6	263
7.2 „ .	10	8.0	4.9	070	1	7.0	7.0	115					2	9.0	6.6	212					24	10.8	2.7	043
9.0 „ .	5	12.0	11.4	057									1	17.0	17.0	090					19	21.6	17.6	077

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9·0 Km. above mean sea level

July 1958 (Asadha 10—Sravana 9, 1880 Saka)

Station	VENGURLA								VERAVAL															
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . . .	31	7.7	6.8	262	31	6.1	5.6	256	31	5.5	4.9	252	31	19.4	17.1	261	31	18.9	16.2	251	30	19.8	18.2	259
0.15 a. g. . .	23	17.0	16.4	267	27	19.1	18.9	264	29	17.4	16.6	261	31	22.0	19.4	260	31	22.3	19.8	248	30	22.0	20.0	260
0.3 a. s. l. . .	23	18.9	18.3	266	27	23.1	22.6	266	29	20.2	19.6	264	31	23.0	20.3	260	31	24.0	21.5	251	30	22.2	20.0	261
0.6 , , . . .	17	23.9	23.0	270	26	28.2	27.6	270	27	24.4	24.0	267	30	25.2	21.7	262	28	26.1	23.0	253	30	23.8	21.4	263
0.9 , , . . .	5	30.8	30.7	282	14	29.1	28.5	276	10	29.6	28.6	274	30	27.2	23.3	263	18	28.4	24.3	256	30	25.4	22.7	266
1.5 , , . . .	1	21.0	21.0	285	4	23.5	23.5	279	7	23.3	23.0	286	30	26.2	20.7	265	5	29.4	23.6	254	30	24.6	21.3	268
2.1 , , . . .					3	20.0	20.0	288	4	19.2	19.2	283	25	21.8	17.2	267	1	21.0	21.0	280	28	22.1	18.7	270
3.0 , , . . .					2	18.0	17.4	290	2	14.0	13.9	284	25	17.3	11.5	283					28	18.6	12.5	277
3.6 , , . . .													25	16.5	8.7	295					28	16.8	8.1	291
4.5 , , . . .													25	15.7	5.7	339					28	14.5	3.1	342
5.4 , , . . .													25	15.6	5.5	010					28	14.2	5.7	053
6.0 , , . . .													25	14.4	4.0	028					26	13.4	7.0	071
7.2 , , . . .													25	13.0	7.4	078					25	13.0	9.5	075
9.0 , , . . .													25	19.6	15.9	089					23	19.7	17.6	085

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9.0 Km. above mean sea level

July 1958 (Asadha 10—Sravana 9, 1880 Saka)

Ht. in Km.	n	V	v	D	Ht. in Km.	n	V	v	D	Ht. in Km.	n	V	v	D	Ht. in Km.	n	V	v	D		
AGARTALA					BAMRAULI					GAUHATI					MADRAS						
0530 hrs.					0530 hrs.*					0530 hrs.*					0530 hrs.*						
10.5	3	19.6	17.2	100	10.5	14	17.9	16.7	085	10.5	7	14.7	12.9	06	10.5	28	29.9	28.2	079		
12.0	2	27.5	26.5	083	12.0	12	19.6	17.7	071	12.0	4	20.3	18.9	073	12.0	26	47.2	46.3	076		
14.1	2	37.5	34.7	065	14.1	9	25.0	21.0	068	14.1	1	29.0	29.0	030	14.1	17	61.9	60.4	077		
16.2	1	9.0	9.0	115	16.2	5	32.8	32.4	057			1730 hrs.*					16.2	7	74.4	74.0	080
18.0	1	27.0	27.0	110			1730 hrs.*					10.5	6	22.7	21.3	055	18.0	4	66.5	66.0	090
		1730 hrs.					10.5					6	22.7	21.3	055	18.0	1	40.0	40.0	080	
10.5	1	20.0	20.0	100	12.0	18	16.9	15.6	078	12.0	1	20.0	20.0	350	21.0	2	58.5	58.5	080		
AMBALA					BAREILLY					GORAKHPUR					1730 hrs.*						
		1730 hrs.													0530 hrs.*						
10.5	1	13.0	13.0	105	18.0	9	26.3	23.5	072						10.5	28	27.8	25.5	082		
12.0	1	10.0	10.0	130		4	29.0	27.5	061			0530 hrs.					12.0	27	41.2	39.1	082
14.1	1	20.0	20.0	005		16.2									14.1	20	61.5	60.3	082		
16.2	1	27.0	27.0	060	10.5	3	47.7	47.3	071	10.5	2	26.5	26.5	094	14.1	14.1	26	15.7	6.4	105	
18.0	1	29.0	29.0	075			0530 hrs.					10.5	4	14.7	14.0	084	18.0	4	59.5	58.9	074
21.0	1	20.0	20.0	100	14.1	1	19.0	19.0	140		12.0	3	21.7	21.5	071	21.0	1	28.0	28.0	095	
		1730 hrs.													21.0	3	36.3	36.0	084		
AMRITSAR					BIKANER					JABALPUR					MINICOY						
		0530 hrs.*													10.5	1	21.0	21.0	085		
10.5	11	15.9	12.1	289			1730 hrs.								12.0	1	26.0	26.0	070		
12.0	9	18.0	15.0	270	10.5	5	11.8	3.3	090	10.5	1	29.0	29.0	100			1730 hrs.*				
14.1	6	20.0	16.6	277	12.0	4	15.3	11.2	066						14.1	1	79.0	79.0	090		
16.2	4	26.7	25.7	310	14.1	2	33.5	33.1	091						14.1	1	29.0	29.0	090		
18.0	2	31.5	25.0	321	16.2	2	42.5	40.1	084			0530 hrs.					14.1	29	14.2	8.2	093
21.0	2	29.5	17.9	341	18.0	1	49.0	49.0	110	10.5	2	18.5	16.6	123			14.1	27	19.6	14.7	080
		1730 hrs.*													18.0	1	31.0	31.0	090		
ANANTAPUR					JAIPUR					MOHANBARI					PORT BLAIR						
		0530 hrs.													18.0	1	34.0	32.5	087		
10.5	19	17.1	12.8	253			0530 hrs.								21.0	8	30.4	30.0	088		
12.0	17	18.8	14.9	246	10.5	1	7.0	7.0	190						24.0	1	31.0	31.0	090		
14.1	17	19.9	7.2	243			0530 hrs.								27.0	1	55.0	55.0	090		
16.2	9	24.4	8.6	332	DUM DUM					JODHPUR					PORT BLAIR						
18.0	3	24.7	14.9	313			0530 hrs.*								30.0	1	64.0	64.0	090		
21.0	1	40.0	40.0	010	10.5	22	20.0	18.8	99	14.1	20	31.3	28.8	084	10.5	3	21.7	18.9	930		
		0530 hrs.*													10.5	16	27.4	26.3	064		
BAGHDogra					NAGPUR					RAXAUL					PORT BLAIR						
		0530 hrs.													10.5	18	32.4	30.3	067		
10.5	1	33.0	33.0	085	16.2	5	33.4	32.8	079	21.0	1	72.0	72.0	080			12.0	10	40.1	38.9	064
12.0	1	52.0	52.0	085	18.0	2	30.5	29.5	083			1730 hrs.*									
14.1	1	49.0	49.0	075			0530 hrs.*														
		1730 hrs.*					10.5	18	16.8	13.8	094										
ANANTAPUR					JAIPUR					MOHANBARI					PORT BLAIR						
		0530 hrs.													14.1	3	43.7	42.7	068		
10.5	1	12.0	12.0	090	14.1	13	24.9	20.4	083	16.2	3	41.7	40.6	098	14.1	8	49.7	48.2	080		
12.0	1	14.0	14.0	090	16.2	5	34.4	32.1	063	18.0	2	44.0	44.0	090	16.2	7	65.4	64.0	084		
14.1	1	29.0	29.0	090	18.0	2	43.0	39.1	061	21.0	1	41.0	41.0	090	18.0	5	59.9	58.5	085		
		0530 hrs.													10.5	2	22.0	22.0	080		

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9.0 Km. above mean sea level

July 1958 (Asadha 10—Sravana 9, 1880 Saka)

Ht. in Km	n	V	v	D	Ht. in Km	n	V	v	D
SANTA CRUZ					VERAVAL				
0530 hrs.*					1730 hrs.*				
10.5	18	19.1	17.3	077	10.5	23	28.6	27.6	087
12.0	18	27.8	25.5	080	12.0	18	42.0	41.2	093
14.1	14	46.9	45.3	081	14.1	16	59.3	58.1	088
16.2	9	54.7	54.1	090	16.2	11	55.6	54.8	089
18.0	4	60.0	59.3	085	18.0	6	44.2	43.8	090
21.0	1	60.0	60.0	090					
1730 hrs.*									
10.5	20	21.0	17.6	069					
12.0	13	31.7	30.6	084					
14.1	9	48.2	47.9	089					
16.2	5	64.0	63.4	092					
18.2	3	69.0	61.7	089					
TEZPUR									
1730 hrs.									
10.5	4	19.8	19.5	069					
12.0	1	33.0	33.0	100					
TRIVANDRUM									
0530 hrs.*									
10.5	17	40.4	39.5	082					
12.0	15	58.6	57.7	078					
14.1	8	73.8	72.6	081					
16.2	1	118.0	118.0	090					
18.0	1	115.0	115.0	090					
1730 hrs.*									
10.5	20	38.4	37.7	082					
12.0	17	60.7	59.9	076					
14.1	11	67.8	65.5	077					
16.2	6	63.2	61.4	092					
18.0	2	39.5	39.1	089					
VERAVAL									
0530 hrs.*									
10.5	22	27.5	25.0	091					
12.0	19	40.0	39.0	092					
14.1	18	56.4	55.6	092					
16.2	7	54.4	53.1	085					
18.0	3	50.7	50.7	083					

RADIOSONDE DATA**July, 1958 (Asadha 10—Sravana 9, 1880 Saka)**

During the month, observations of upper air temperature, pressure and humidity were made at 13 stations in India as given in the list below. For a detailed description of the instruments used, a reference may be made to the I.M.D. Scientific Notes Nos. 112 and 113 (Volume IX).

LIST OF RADIOSONDE STATIONS IN INDIA

S. No.	Name of Station	Type of instrument used	Date of starting	Hours of routine observations in G.M.T. during the month	Remarks
1	Allahabad . . .	Clock type	1st October 1944	00 and 12	
2	Amritsar . . .	Clock type	21st June 1957	00 and 12	
3	Bombay . . .	Clock type	7th September 1954	00 and 12	
4	Calcutta . . .	Clock type	13th December 1946	00 and 12	Fan type used from 13th December, 1946 to 30th November, 1947.
5	Gauhati . . .	Clock type	22nd July 1955	00 and 12	
6	Jodhpur . . .	Clock type	17th April 1946	00 and 12	
7	Madras . . .	Fan type	29th June 1946	00 and 12	
8	Nagpur . . .	Fan type	1st October 1946	00 and 12	
9	New Delhi . . .	Clock type	3rd December 1943	00 and 12	
10	Port Blair . . .	Fan type	4th December 1949	00 and 12	
11	Trivandrum . . .	Fan type	1st July 1947	00 and 12	
12	Veraval . . .	Fan type	3rd October 1944	00 and 12	
13	Visakhapatnam . . .	Fan type	8th December 1946	00 and 12	

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES
 (A) From Ascents at 00 Hours G. M. T.
 July 1958 (Asadha 10—Sravana 9, 1880 Saka)

Standard pressure Surface mbs.	ALLAHABAD Surf. Pr. (986 mb.)							AMRITSAR (971 mb.)							BOMBAY (1001 mb.)						
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A						
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			
Surface	31	98	300.7	306	296	298.4	31	230	300.7	304	296	298.3	31	013	300.0	301	297	298.			
1000	24	-031	..	..	..	..	28	-029	..	..	..	..	31	025	..	..	..	..
900	24	906	298.0	304	295	294.3	28	901	298.6	302	294	294.1	31	952	295.3	298	293	293.			
850	24	1408	295.3	301	292	292.0	28	1401	296.0	300	291	291.3	31	1449	292.6	295	290	290.			
800	24	1935	292.4	296	288	289.0	28	1930	292.7	297	289	288.9	31	1971	290.1	293	286	287.			
700	24	3075	286.5	290	284	283.0	28	3063	286.0	290	282	281.6	31	3104	285.3	288	280	280.			
600	24	4360	280.4	284	277	276.0	28	4342	278.6	283	269	271.8	31	4385	279.2	282	274	274.			
500	23	5846	273.3	278	270	268.3	26	5813	271.7	276	265	261.2	29	5863	272.0	276	264	268.			
400	23	7602	262.7	268	255	..	24	7571	263.2	268	257	..	28	7618	263.7	270	259	..			
300	20	9765	248.9	254	241	..	17	9758	250.8	257	247	..	19	9810	252.7	259	246	..			
250	17	11036	240.1	246	235	..	15	11074	241.3	245	238	..	18	11142	244.3	249	236	..			
200	17	12621	228.5	239	219	..	14	12574	231.5	240	227	..	14	12681	233.0	239	225	..			
175	17	13503	221.4	228	214	..	13	13517	224.2	231	209	..	12	13584	226.2	231	218	..			
150	17	14487	213.9	221	205	..	9	14522	217.6	224	211	..	11	14575	219.2	224	213	..			
125	14	15603	207.6	213	202	..	7	15689	209.9	216	201	..	10	15741	211.3	218	205	..			
100	10	16818	204.2	212	194	..	..	..	..	..	..	..	7	16641	204.3	210	195	..
80	7	18348	203.4	204	197	..	..	..	..	..	..	..	..	..	..	..	..	..
	CALCUTTA (997 mb.)							GAUHATI (995 mb.)							JODHPUR (973 mb.)						
Surface	31	006	299.8	303	298	298.9	31	019	300.8	302	299	298.9	29	218	301.6	307	299	297.			
1000	31	-018	..	..	..	..	26	-08	..	..	..	..	29	-025	..	..	..	..
900	31	905	295.1	298	292	292.9	26	929	296.6	300	293	293.2	29	911	297.8	303	294	294.			
850	31	1401	292.7	295	290	290.3	26	1428	293.8	297	290	290.2	29	1413	295.8	300	292	290.			
800	31	1921	290.6	294	287	287.6	26	1951	291.0	295	287	288.1	29	1991	294.0	298	289	287.			
700	31	3053	285.3	289	282	281.3	26	3083	285.2	289	281	281.4	29	3086	287.9	291	285	281.			
600	31	4344	279.3	283	275	274.6	26	4362	279.0	284	273	274.0	29	4378	280.7	285	276	273.			
500	31	5811	271.7	276	268	265.5	26	5837	271.8	277	266	270.8	29	5860	272.7	278	269	267.			
400	31	7560	261.9	268	255	..	26	7585	262.2	267	255	..	28	7618	263.7	268	259	..			
300	26	9707	247.3	254	241	..	11	9712	248.2	253	243	..	28	9794	250.4	256	243	..			
250	22	11012	237.6	244	232	..	9	11013	239.2	244	237	..	28	11113	241.5	247	238	..			
200	20	12542	226.3	234	220	..	7	12529	228.9	234	226	..	28	12659	230.1	240	226	..			
175	17	13395	218.6	228	211	..	6	13441	223.5	230	217	..	26	13542	222.7	230	217	..			
150	16	14367	213.6	221	203	..	..	..	..	..	..	..	25	14540	214.8	223	206	..
125	9	15494	205.9	212	199	..	..	..	..	..	..	..	22	15680	207.7	217	202	..
100	6	16870	201.5	209	197	..	..	..	..	..	..	..	14	15207	202.9	211	197	..
80	..	..	..	..	..	..	..	..	..	..	..	..	10	18431	202.8	209	195	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES
 (A) From Ascents at 00 Hours G. M. T.
 July 1958 (Asadha 10—Sravana 9, 1880 Saka)

Standard pressure Surface mbs.	MADRAS Surf. Pr. (1003 mb.)							NAGPUR (965 mb.)							NEW DELHI (974 mb.)						
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A						
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			
Surface	31	015	301.5	303	299	294.9	31	311	298.3	301	296	295.8	31	210	300.0	303	297	298.0			
1000	31	038	...	...	...	...	31	-007	...	...	...	...	31	-026	...	...	...	...
900	31	969	295.9	300	293	289.5	31	920	296.0	300	292	292.5	31	906	297.9	303	295	294.4			
850	31	1467	292.9	297	289	287.0	31	1418	293.4	299	290	289.8	31	1409	295.5	300	292	291.9			
800	31	1988	289.5	293	284	284.0	31	1941	290.7	297	283	287.6	31	1939	292.4	296	288	290.0			
700	31	3116	282.9	286	281	273.5	31	3075	285.1	291	282	282.0	31	3071	286.2	289	283	283.6			
600	31	4382	275.5	279	273	271.4	31	4357	279.5	288	275	275.5	31	4355	280.2	284	277	276.5			
500	31	5835	267.3	271	259	...	30	5835	271.9	279	268	267.6	30	5839	272.8	278	269	267.7			
400	30	7552	257.3	261	249	...	29	7584	262.4	271	257	...	30	7596	263.4	268	259	...			
300	29	9665	242.2	249	238	...	25	9744	248.5	253	243	...	30	9764	250.3	255	242	...			
250	28	10941	232.9	239	225	...	20	11049	239.7	244	233	...	29	11079	240.6	246	231	...			
200	26	12430	220.8	229	214	...	16	12572	226.5	231	219	...	29	12618	229.0	234	221	...			
175	21	13329	213.6	221	206	...	13	13435	220.2	224	212	...	29	13500	221.6	229	216	...			
150	16	14294	208.8	217	195	...	12	14422	211.9	218	205	...	29	14483	213.9	218	209	...			
125	11	15434	205.6	208	194	...	10	15551	207.9	212	202	...	29	15599	205.1	215	200	...			
100	8	16799	199.7	207	191	...	6	16894	201.5	206	196	...	29	16917	198.8	207	188	...			
80	6	18109	200.3	207	195	...	...	...	...	...	...	...	24	18214	198.8	207	192	...

	PORT BLAIR (998 mb.)							TRIVANDRUM (1001 mb.)							VERAVAL (999 mb.)						
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A						
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			
Surface	31	079	299.0	301	297	297.4	30	064	298.7	300	297	296.7	31	008	301.1	302	300	298.5			
1000	30	057	...	...	...	...	30	072	...	...	...	...	31	003	...	...	...	...
900	30	983	294.9	298	292	292.4	30	993	293.1	295	289	290.4	31	927	295.5	299	292	291.2			
850	30	1478	292.3	297	289	289.0	30	1485	290.0	292	286	286.8	31	1421	292.8	297	290	288.1			
800	30	1999	290.0	297	286	285.7	30	2001	287.4	290	284	282.7	31	1941	290.7	295	287	284.0			
700	30	3127	284.1	290	281	279.0	30	3119	281.8	285	279	274.2	31	3073	286.4	290	282	275.7			
600	29	4397	277.1	283	274	271.7	30	4381	275.5	279	271	264.8	31	4350	278.8	284	271	269.9			
500	29	5856	269.0	274	265	...	30	5832	267.4	273	263	...	31	5819	270.5	275	266	257.7			
400	27	7584	259.2	262	254	...	28	7551	256.5	265	249	...	31	7561	261.5	268	256	...			
300	21	9672	245.7	253	239	...	22	9650	241.4	249	231	...	31	9712	248.1	255	238	...			
250	16	11003	237.4	245	233	...	20	10925	231.7	239	223	...	28	11007	238.9	245	230	...			
200	5	12563	230.0	233	226	...	18	12411	221.8	228	214	...	25	12511	225.7	232	219	...			
175	..	..	..	..	..	..	12	13297	217.0	222	207	...	25	13376	218.0	226	210	...
150	..	..	..	..	..	..	9	14229	209.0	216	200	...	19	14375	212.9	217	201	...
125	..	..	..	..	..	..	..	..	..	..	..	..	15	15529	206.1	213	198	...
100	..	..	..	..	..	..	..	..	..	..	..	..	13	16857	202.5	211	196	...
80	..	..	..	..	..	..	..	..	..	..	..	..	9	18212	203.7	219	190	...

RADIOSONDE DATA**TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES**

(A) From Ascents at 00 Hours G. M. T.

July 1958 (Asadha 10—Sravana 9, 1880 Saka)

Standard Pressure Surface mbs.	VISAKHAPATNAM Surf. Pr. (994 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	31	048	300.0	302	298	296.6
1000	31	012	...	..	..	..
900	31	925	295.5	297	291	291.7
850	31	1419	292.7	295	287	289.7
800	31	1939	289.8	292	285	287.3
700	31	3065	283.6	287	279	281.8
600	30	4334	277.0	281	273	275.1
500	29	5796	269.6	275	265	..
400	27	7531	259.8	266	255	..
300	19	9658	245.6	252	240	..
250	15	10943	235.3	242	231	..
200	8	12157	225.1	232	216	..
175	5	13358	220.6	223	212	..
150	5	14354	213.8	219	207	..
125						
100						
80						

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES
 (B) From Ascents at 12 Hours G.M.T.
 July 1958 (Asadha 10—Sravana 9, 1880 Saka)

Standard pressure surface mbs.	ALLAHABAD Surf. Pr. (984 mb.)							AMRITSAR (970 mb.)							BOMBAY (1001 mb.)						
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A						
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			
Surface	31	98	305.3	316	299	298.0	31	230	306.9	311	299	298.2	31	13	301.5	303	298	298.5			
1000	26	-50	..	..	..	..	30	-49	..	..	..	..	31	21	..	..	..	..
900	26	895	300.0	306	297	293.4	30	899	301.8	307	294	294.2	31	952	295.6	298	293	293.3			
850	26	1439	297.0	302	293	291.0	30	1406	298.6	303	293	291.9	31	1449	293.1	296	288	290.4			
800	26	1929	293.8	299	290	288.4	30	1943	295.5	300	291	288.2	31	1972	291.0	294	288	287.5			
700	26	3075	288.0	291	284	282.2	30	3087	288.9	293	285	279.8	30	3110	286.1	289	283	279.0			
600	26	4370	281.8	285	277	275.2	29	4379	280.0	288	279	272.2	30	4393	279.7	284	274	274.8			
500	26	5862	274.3	279	270	267.5	27	5864	274.4	278	269	259.9	30	5873	272.9	277	268	269.9			
400	26	7626	264.7	270	260	..	27	7626	264.8	268	261	..	30	7636	264.9	271	255	..			
300	24	9806	251.2	258	244	..	24	9808	251.7	262	242	..	23	9830	252.8	259	243	..			
250	24	11122	241.4	247	232	..	21	11120	242.0	254	234	..	19	11145	244.1	251	234	..			
200	23	12672	229.7	237	217	..	20	12661	230.3	237	222	..	9	12664	231.6	239	219	..			
175	23	13544	222.5	235	209	..	19	13537	223.3	233	212	..	7	13521	222.7	228	211	..			
150	23	14544	214.8	227	202	..	19	14534	216.5	228	198	..	6	14489	214.7	223	202	..			
125	20	15676	206.7	220	197	..	12	15702	210.7	224	190	..						..
100	14	17087	201.7	215	193	..	7	17140	205.6	222	197	..						..
80	11	18366	201.6	212	193	..															
	CALCUTTA (996 mb.)							GAUHATI (992 mb.)							JODHPUR (971 mb.)						
Surface	31	6	302.8	305	300	299.2	31	49	302.4	305	299	299.5	30	218	306.7	312	302	297.6			
1000	31	-34	..	..	..	..	26	-24	..	..	..	..	30	-48	..	..	..	..
900	31	899	297.1	301	294	294.7	26	913	297.4	300	295	294.0	30	901	301.4	306	297	294.5			
850	31	1398	294.7	298	293	291.9	26	1412	294.5	297	291	291.7	30	1407	297.7	304	294	292.1			
800	31	1925	291.8	296	289	288.7	26	1936	291.7	295	288	288.6	30	1936	294.6	303	291	289.2			
700	31	3060	287.0	291	285	282.4	26	3071	285.5	289	279	282.2	29	3085	288.9	293	286	281.9			
600	31	4348	280.6	285	277	275.3	26	4352	279.3	283	274	275.9	28	4380	281.7	287	277	274.0			
500	31	5833	273.1	277	268	266.3	25	5827	272.1	276	267	269.6	26	5866	274.3	278	271	264.9			
400	31	7589	263.1	268	256	..	25	7577	262.8	267	256	..	25	7631	264.8	268	259	..			
300	28	9746	249.6	257	240	..	9	9756	250.0	253	247	..	22	9821	252.0	255	247	..			
250	27	11057	240.5	249	235	..	5	11058	238.6	242	237	..	20	11145	242.7	247	238	..			
200	26	12595	228.5	238	220	..	5	12579	226.2	231	222	..	18	12709	231.3	238	225	..			
175	20	13450	219.7	231	211	..							15	13606	224.3	231	217	..			
150	16	14453	212.1	223	203	..							14	14613	216.4	223	208	..			
125	11	15604	206.5	213	193	..							13	15763	208.2	217	197	..			
100	6	17043	203.2	205	193	..							10	17068	203.1	211	194	..			
80													8	18437	205.6	231	190	..			

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 12 Hours G. M. T.

July 1958 (Asadha 10—Sravana 9, 1880 Saka)

Standard Pressure Surface mbs.	MADRAS Surf. Pr. (1001 mb.)						NAGPUR (963 mb.)						NEW DELHI (972 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	15	304.6	309	301	295.8	30	311	302.1	307	297	295.9	31	210	304.2	311	299	299.1
1000	31	20	..	..	..	..	30	—24	..	..	..	..	31	43	..	..	..	..
900	31	960	298.8	301	295	290.8	30	913	298.3	302	293	292.1	31	897	299.8	306	295	295.0
850	31	1461	294.6	298	291	288.5	30	1414	294.3	299	288	290.1	31	1398	296.5	301	293	291.8
800	31	1984	290.2	293	287	286.7	30	1938	291.0	295	285	287.7	31	1928	293.5	297	290	289.4
700	31	3110	282.6	286	277	280.2	30	3072	284.9	290	280	281.5	31	3066	287.2	290	285	283.3
600	31	4376	275.9	279	272	273.4	30	4352	279.0	284	274	274.3	31	4355	281.3	286	278	276.3
500	31	5832	268.8	273	263	..	30	5824	271.1	275	266	265.6	31	5844	273.7	280	271	269.5
400	31	7559	258.3	264	252	..	30	7571	262.1	267	255	..	31	7605	264.2	268	260	..
300	29	9681	243.8	249	237	..	20	9735	249.2	258	243	..	30	9775	250.3	255	244	..
250	26	10973	235.1	242	226	..	12	11083	242.0	249	235	..	29	11092	241.2	247	234	..
200	24	12483	224.4	234	211	..	9	12621	232.3	238	226	..	29	12632	229.3	237	219	..
175	21	13340	217.4	226	203	..	7	13473	222.1	231	207	..	27	13514	222.4	231	214	..
150	19	14323	210.7	221	200	..	7	14469	216.3	225	203	..	26	14501	213.9	223	209	..
125	8	15451	204.0	215	197	..						..	24	15623	205.5	217	198	..
100					..							..	19	16957	198.7	209	193	..
80					..							..	17	18238	196.1	204	188	
	PORT BLAIR (997 mb.)						TRIVANDRUM (1000 mb.)						VERAVAL Surf. pr. (1000 mb.)					
Surface	31	79	299.5	301	296	297.3	31	64	301.1	302	298	297.2	31	8	302.1	304	301	299.0
1000	31	50	..	..	..	..	31	66	..	..	..	..	31	7	..	..	..	..
900	31	977	294.8	298	291	292.6	31	993	294.2	297	291	289.9	31	932	295.6	303	292	291.6
850	31	1472	291.9	296	286	289.2	31	1488	291.3	294	288	286.3	31	1426	292.9	301	290	288.8
800	31	1993	289.2	294	284	286.0	31	2005	288.7	291	285	282.2	31	1945	291.7	299	288	284.7
700	31	3121	283.6	288	280	280.2	31	3127	283.2	287	279	274.1	31	3079	286.4	290	283	274.0
600	31	4391	276.9	281	272	272.4	31	4394	276.5	281	271	263.5	31	4358	278.7	283	273	269.5
500	31	5851	269.1	274	264	..	30	5849	267.7	275	259	..	31	5827	270.6	274	265	262.7
400	31	7578	258.3	264	255	..	30	7562	256.4	262	250	..	31	7568	261.6	268	258	..
300	24	9716	245.7	252	238	..	25	9662	241.1	248	233	..	30	9721	247.8	257	242	..
250	17	10976	235.2	243	226	..	21	10922	231.7	240	223	..	30	11020	238.7	248	232	..
200	10	12488	224.8	231	214	..	18	12407	221.2	229	212	..	26	12533	226.0	238	218	..
175	8	13328	216.9	224	210	..	16	13271	215.7	224	206	..	20	13380	216.9	226	217	..
150	7	14306	208.7	216	202	..	14	14241	209.9	219	203	..	20	14350	209.1	219	202	..
125					..		9	15309	203.3	209	196	..	18	15455	201.3	217	190	..
100					..		6	16632	201.8	206	195	..	18	16790	198.5	210	186	..
80					..							..	12	18071	199.7	214	186	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 12 Hours G.M.T.

July 1958 (Asadha 10—Sravana 9, 1880 Saka)

Standard Pressure Surface mbs.	VISAKHAPATNAM Surf. pr. (883 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	31	48	302.8	306	298	297.2
1000	31	15	..	..	..	..
900	31	918	296.9	300	292	292.5
850	31	1415	293.5	297	290	289.9
800	31	1937	290.0	295	286	287.4
700	31	3065	284.5	287	281	280.3
600	29	4338	277.9	281	273	274.0
500	29	5804	269.7	275	266	..
400	28	7536	258.5	265	254	..
300	21	9660	244.1	253	236	..
250	15	10957	237.1	244	228	..
200	9	12493	228.2	236	223	..
175	6	13384	222.8	228	217	..
150	..	..	..	..	..	..
125	..	..	..	..	..	..
100	..	..	..	..	..	..
80	..	..	..	..	..	..

NOTE:—Number of observations refer to those of dynamic height.

Means are not worked out for temperature and dew point for 1000 mb. surface and for dew point for standard pressure surfaces with temperature less than 273°A.

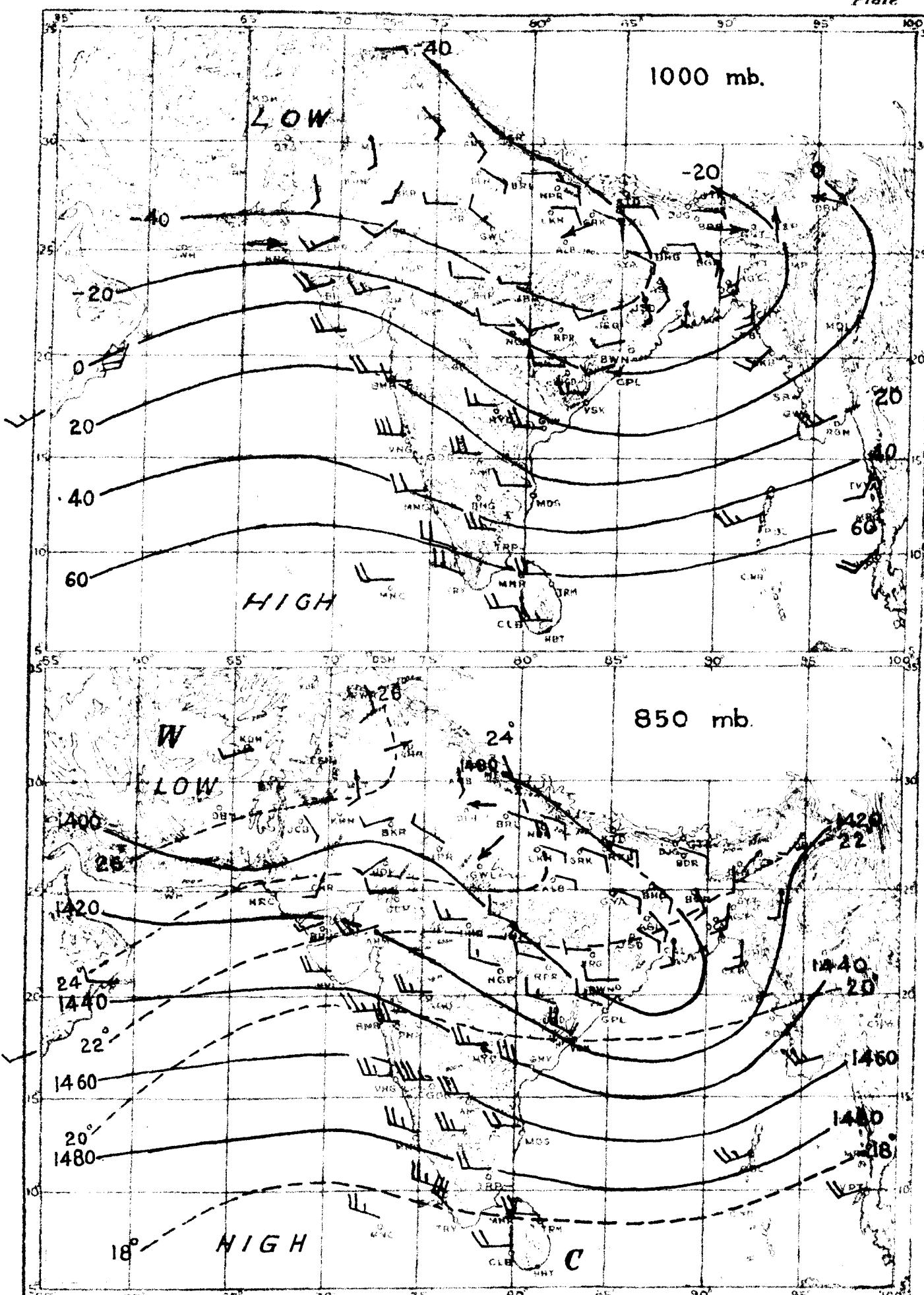
Means are not worked out for less than five observations at standard pressure surfaces.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

JULY 1958

IMD

Plates



RESULTANT WIND — 5 Knots, — 10 Knots, — 50 Knots.

----- Isotherms in degrees centigrade ----- Contours in geopotential metres.

DPC/2133/11/63

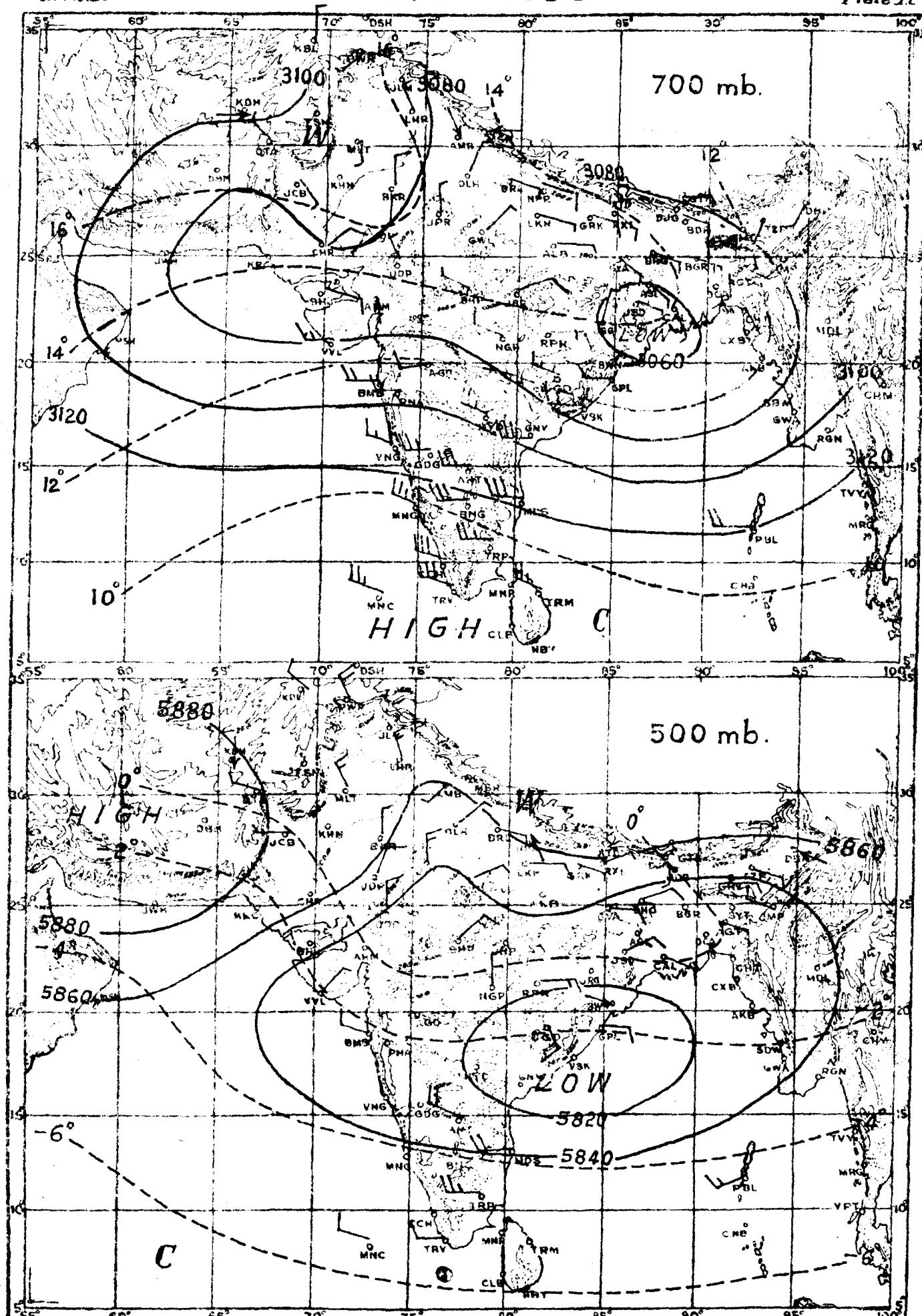
O.P.D. DOONAL, I.I.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

J. Met. D.

JULY 1958

Plate II



RESULTANT WIND — 5 Knots. — 10 Knots. — 50 Knots.

----- Isotherms in degrees centigrade ----- Contours in geopotential metres.

G.P.Z.-B. PODRA, 1963

INDIA WEATHER REVIEW, 1958

Monthly Weather Report August

Published by authority of the Government of India

Chief features—

2. MAR 12

Copy

Excess of rainfall in the northern parts of the country during the first half of the month and over the rest of the country during the second half of the month.

The axis of the monsoon trough remained fairly to the north of its normal position during the first half of August. During this period, the monsoon was active or vigorous over the region extending from the Punjab (I) to Assam. The persistent rains led to the flooding of almost all the rivers in north India. Several villages in the Punjab (I), Uttar Pradesh and Bihar were reported to have been under water.

By the middle of August, the axis of the monsoon trough began to shift southwards back to its normal position. A trough of low pressure developed over Orissa and the adjoining northwest Bay on 17th. It shifted westnorthwestwards into east Madhya Pradesh on 18th. It filled up over northwest Madhya Pradesh on 20th. A depression formed in the northwest Bay of Bengal with centre about 200 Kms to the east of Puri on the morning of 29th August. It crossed coast near Puri on 30th morning and lay over Vidarbha on 31st morning. These systems helped to maintain active to vigorous monsoon conditions over Madhya Pradesh, the Bombay State and the northern parts of the Peninsula during the third and fourth weeks of the month. South Peninsula also received more than usual rainfall during this period.

Bombay (Colaba) recorded rainfall amounts of the order of 10 cms on several days, particularly during the last three weeks of August, with the result that the total rainfall for the month amounted to as much as 126 cms, the highest ever recorded at that station during the month of August.

The total rainfall during the month was in large defect in the Bay Islands and west Rajasthan, in moderate defect in Gangetic West Bengal, Orissa, Chota Nagpur and in slight defect in east Rajasthan and east Madhya Pradesh. It was normal in the Punjab (I), west Madhya Pradesh, Saurashtra and Kutch, in slight excess in Assam, east Uttar Pradesh, south Mysore and Kerala, in moderate excess in Bihar, west Uttar Pradesh, Gujarat, coastal Andhra Pradesh, the Madras State, coastal Mysore and the Arabian Sea Islands and in large excess over the rest of the country.

Mean maximum temperature was above normal in Chota Nagpur, Rajasthan, east Madhya Pradesh, and Saurashtra and Kutch and normal over the rest of the country outside Sub-Himalayan West Bengal, Jammu and Kashmir, coastal Andhra Pradesh, Rayalaseema and the Madras State where it was below normal. Mean minimum temperature was above normal in west Rajasthan and normal over the rest of the country outside Jammu and Kashmir where it was below normal.

Mean relative humidity in the morning was above normal in west Uttar Pradesh, the Punjab (I), Gujarat, the Konkan, Maharashtra, Vidarbha, Andhra Pradesh and north Mysore and normal over the rest of the country outside Jammu and Kashmir where it was below normal.

Mean cloud amount in the morning was normal over the country outside Sub-Himalayan West Bengal, Rayalaseema, the Madras State, north Mysore and the Arabian Sea Islands where it was above normal.

"Copyright © 1959 by Manager of Publications, Govt. of India, Delhi-8."

Normal data for Himachal Pradesh are absent.

Table I contains the divisional and sub-divisional means of rainfall, temperatures, humidity and cloud amount for the 14 chief political divisions and the 30 sub-divisions. The stations whose observations are used for preparing these means are given in the subsequent tables.

The highest maximum temperature given for any station in the accompanying tables is that recorded within the 24 hours ending at 0830 hrs. IST of the date noted in the succeeding column; similarly the heaviest fall in 24 hours for any station denotes the amount recorded during the 24 hours ending at 0830 hrs. IST of the date given in the succeeding column.

POONA 5,

The 18th August, 1960.

C. Ramaswamy,

for Director General of Observatories.

Errata to Monthly Weather Report August 1958 (Sravana 10 Bhadra 9, 1880 Saka)

Page No.	Station	Hour	Column	For	Read
----------	---------	------	--------	-----	------

Sub-division

395	23. Telangana	9	6, 3.	6.8
395	26. Coastal Mysore	8	7.5	7.6

Table II

396	Maya Bandar	5	4 Day	4 Days
396	Jalpaiguri	11	1517	1517.6
396	Burdwan	8	23.0	23.9
397	Nautanwa	25	5	0
397	Varanasi (Banaras) (Babatpur Aerodrome)	25	1	0
397	Allahabad (Bamrauli)	25	2	0
397	Kanpur	25	1	0
397	Lucknow	25	1	0
398	New Delhi	16	+ 5.9	+ 5.0
399	Jodhpur	16	+ 3.9	3.9
399	Idar	18	4.7	4.7
400	Rajkot (Aerodrome)	10	48.5	48.4
400	Brahmapuri	10	141.6	141.7
402	Bellary	9	27	6.27
402	Kohima	25	Blank	0
402	Coonoor	5	4	4 days
403	Dharoi	10, 11	27, 2, Blank	27, 2, 81.8

Table III

406	Goalpara	1730	10	23.2	33.2
407	Barrackpore	2330	13	4	4.3
407	Suri	1730	7	39.4	29.4
408	Keonjhar	0830	4	1000.3	1003.3
408	Keonjhar	1730	4	997.8	1000.8
409	Nautanwa	1730	8	2.6	26.6
409	Gorakhpur (PBO)	0230	5	991.9	991.8
409	Fatehpur	0830	7	37.8	27.8
410	Bareilly	0830	14	+ 1.	+ 1.0
410	New Delhi	0230	13	4.	4.3
411	Leh	0530	2	0530	*0530
411	Leh	1730	9	2.4 †	2.4
412	Bikaner	1730	23	Blank	2
412	Barmer	0530	1	Barmer	Barmer
414	Deesa	0830	4	0002.8	1002.8
416	Parbhani	0830	4, 5	1004.7, 957.6	1004.9, 957.8
416	Parbhani	1730	4, 5	1000.7, 954.3	1000.9, 954.5
416	Poona	0830	22	Blank	0
416	Kolhapur	1730	28	Blank	0
417	Masulipatam	2330	26	7	2
418	Cuddapah	0830	12	+ 1.8	+18
420	Balehonnur	0830	12, 13	+ , Blank	+ 2, ---
420	Kozhikode	2330	7	26.3	25.3

contd. 2

Page No.	Station	Time in L.S.T	Ht. in Km.	Entry under column	Existing entry	Correct entry
425	Santa Cruz	-	-	Ht. of Anemo-meter	14	27
428	Bangalore	0530	3.6	D	-	136
440	Bamrauli	1730	Under Ht. in Km.	the levels 10.5 to 18.0 slightly printed up.		
440	Bareilly	0530	Under Ht. in Km.	the levels 10.5 and 12.0 slightly printed up.		
440	Bareilly	1730	12.6	V 2.5	21.5	
440	Madras	1730	Under Ht. in Km.	the levels 10.5 to 21.0 slightly printed up.		
440	Nagpur	0530 and 1730	Under Ht. in Km.	the levels 10.5 to 24.0 slightly printed up.		
440	New Delhi	1730	Under Ht. in Km.	the levels 18.2 to 24.0 slightly Printed up.		
440	New Delhi	-	-	EW DELHI	NEW DELHI	
440	Port Blair	0530	Under Ht. in Km.	the levels 10.5 to 16.2 slightly printed up.		
440	Port Blair	1130	Under Ht. in Km.	the level 10.5 slightly printed up.		
440	Port Blair	1730	Under Ht. in Km.	the levels 10.5 to 14.1 slightly printed up.		
440	Raxaul	0530	Under Ht. in Km.	the level 10.5 slightly printed up.		

=====

SG. 25-8

TABLE I—DIVISIONAL AND SUB-DIVISIONAL MEANS AUGUST, 1958 (SRAVANA 10—BHADRA 9, 1880 SAKA)

	Rainfall (millimetres)	Cloud									Cloud								
		2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9	
Division																			
1. Assam (Including Manipur, Tripura)	419.3 +56.3	116	31.1 -0.7	25.2 +0.1	88 +2	82 +0.8	7.3 -0.8	6.5		9. Madhya Pradesh	274.2 -36.8	88	30.5 +1.1	23.8 +0.6	87 +2	79	6.5 +0.1	7.1	
2. West Bengal	456.7 +91.6	125	31.4 -0.2	26.0 +0.2	85 +1	80	6.2 0	5.7		10. Bombay	516.8 +271.0	210	30.5 +0.4	24.1 +0.4	89 +6	77	6.8 +0.3	6.8	
3. Orissa	237.5 -85.6	74	31.7 +0.6	26.1 +0.4	85 +3	83 +0.6	6.5 -0.6	6.5		11. Andhra Pradesh	216.7 +78.2	156	31.2 -1.3	24.6 -0.1	84 +8	77	6.9 +1.0	6.8	
4. Bihar	361.4 +30.8	109	31.5 +0.4	25.4 +0.2	85 +2	82 +0.3	6.5 -0.3	6.7		12. Madras State	124.7 +35.5	140	32.6 -1.3	24.6 +0.1	77 +5	67	6.3 +1.7	6.9	
5. Uttar Pradesh	405.4 +98.3	132	31.8 -0.4	25.4 -0.2	87 +5	79 +0.4	6.0 -0.4	5.8		13. Mysore	329.1 +86.6	136	27.7 -0.5	21.3 +0.5	89 +5	77	7.2 +1.1	7.4	
6. Punjab (India) (Including Himachal Pradesh and Delhi)†	180.2 -4.2	98	34.5 0	25.7 -0.3	82 +6	65 -0.5	3.8 -0.5	3.7		14. Kerala	342.6 +39.6	113	28.4 -0.1	23.7 +0.2	92 +4	86	7.2 +0.9	7.1	
7. Jammu and Kashmir.	209.6 +86.4	170	26.1 -1.1	14.4 -1.5	68 -7	52 +0.3	4.3 -0.3	3.7		Mean of India (Excluding Jammu & Kashmir and Himachal Pradesh).	311.2 +61.1	124	31.4 +0.2	24.7 +0.3	85 +4	75	6.3 +0.4	6.4	
8. Rajasthan	95.9 -61.4	61	34.9 +1.9	26.1 +1.1	75 -1	58 -0.4	4.4 -0.4	5.1											
Sub-Division																			
1. Bay Islands	157.3 -256.5	38	29.2 +0.6	24.2 +0.5	84	88	6.7 0	6.5 +0.1		16. Madhya Pradesh (East).	269.4 -86.9	76	30.6 +1.3	24.2 +0.8	85 +1	80	6.3 -0.2	7.0	
2. Assam (Including Manipur, Tripura)	419.3 +56.3	116	31.1 -0.7	25.2 +0.1	88 +2	82 +0.8	7.3 -0.8	6.5		17. Gujarat	274.6 +74.7	137	31.8 +0.8	25.1 +0.6	89 +6	72	7.0 +0.3	6.5	
3. Sub-Himalayan West Bengal.	1080.7 +572.4	213	29.7 -2.0	25.1 -0.6	90	83	7.0 +1.7	5.9		18. Saurashtra and Kutch.	105.7 +6.6	107	33.0 +1.7	25.7 +0.7	85 +3	70	5.7 -0.5	5.8	
4. Gangetic West Bengal.	222.7 -88.7	72	31.9 +0.3	26.3 +0.4	84	80	6.0 -0.5	5.7		19. Konkan	1206.3 +793.8	292	28.6 -0.4	24.4 -0.3	92 +7	88	7.5 +0.4	7.4	
5. Orissa	237.5 -85.6	74	31.7 +0.6	26.1 +0.4	85 +3	83	6.5 +0.6	6.5		20. Maharashtra	415.4 +175.6	173	29.1 -0.3	22.0 +0.7	88 +9	77	6.8 +0.6	7.2	
6. Chota Nagpur	207.9 -138.6	60	31.6 +1.2	24.7 +0.5	83	80	6.7 0	7.0		21. Vidarbha	397.4 +163.5	170	30.9 +0.4	24.1 +0.6	89 +7	79	7.2 +1.1	7.3	
7. Bihar	446.8 +125.0	139	31.5 -0.2	26.0 +0.1	87	84	6.5 +0.4	6.4		22. Coastal Andhra Pradesh,	164.7 +36.3	128	31.8 -1.5	25.7 -0.1	83 +7	76	6.9 +0.9	6.9	
8. Uttar Pradesh (East).	382.1 +76.0	125	31.8 -0.4	25.4 -0.4	88	81	6.5 +0.8	6.2		23. Telangana	329.0 +142.5	176	29.7 -0.5	23.0 +0.1	87 +9	76	6.8 +1.1	6.3	
9. Uttar Pradesh (West).	431.6 +123.3	140	31.9 -0.3	25.3 +0.1	87	77	5.3 -0.1	5.4		24. Rayalseema	208.1 +97.7	188	31.6 -2.1	23.9 -0.5	85 +13	78	7.1 +1.3	6.4	
10. Punjab (India) (Including Delhi).	180.2 -4.2	98	34.5 0	25.7 -0.3	82	65	3.8 -0.5	3.7		25. Madras State	124.7 +35.5	140	32.6 -1.3	24.6 +0.1	77 +5	67	6.3 +1.7	6.9	
11. Himachal Pradesh	325.7 ..	31.5	22.1	22.1	87	69	4.9	4.9		26. Coastal Mysore	811.9 +216.9	136	27.9 -0.2	23.5 -0.1	95 +4	89	7.5 +0.9	7.8	
12. Jammu and Kashmir.	209.6 +86.4	170	26.1 -1.1	14.4 -1.5	68 -7	52	4.3 +0.3	3.7		27. Mysore (North).	227.6 +78.3	152	28.4 -0.5	21.5 +0.6	89 +6	77	7.4 +1.8	7.7	
13. Rajasthan (West)	18.2 -78.0	19	38.0 +2.8	27.6 +1.7	68	43	3.3 -0.7	3.7		28. Mysore (South).	206.2 +31.2	118	26.9 -0.7	20.3 +0.5	87 +5	73	6.8 +0.3	7.0	
14. Rajasthan (East)	173.6 -44.8	79	32.4 +1.2	24.9 +0.7	81	70	5.4 -0.2	6.3		29. Kerala	342.6 +39.6	113	28.4 -0.1	23.7 +0.2	92 +4	86	7.2 +0.9	7.1	
15. Madhya Pradesh (West)	277.3 -3.4	99	30.5 +1.0	23.5 +0.5	88	79	6.6 +0.3	7.2		30. Arabian Islands Sea	298.5 +100.8	150	29.6 +0.1	24.9 -0.3	83 +1	80	6.9 +1.7	7.1	

Note.—The entries in the second line for each division and sub-division indicate departures from normal.

†Data of Himachal Pradesh not included.

396 TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—AUGUST, 1958 (SRAVANA 10—BHADRA 9, 1880 SAKA)

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—AUGUST, 1958 (SRAVANA 10—BHADRA 9, 1880 SAKA) 397

(d) Mean or Total for 27 days.

(e) Mean of 26 days.

(j) Mean of 21 days.

(R) Register not received.

(c) Total for 28 days

398 TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—AUGUST, 1958 (SRAVANA 10—BHADRA 9, 1880 SAKA)

Division and station	Air temperature in °C										Rainfall in millimetres						No. of rainy days (2.5 mm. or more)		Wind speed, kms. per hour		Weather phenomena—No. of days with									
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.3 mm. or more)	Snow or sleet	Thunder head	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall			
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29		
1																														
Uttar Pradesh (East)—contd.																														
Lucknow (Amausi Aerodrome)	31.6	-0.9	36.6	17	25.6	+0.2	23.7	17	70.6	652.4	+360.3	117.8	9	17	+3.3	10.3	7.8	..	22	0	0	7	0	0	0	0	1	0		
Hardoi	31.6	..	36.3	17	25.8	..	21.6	17	200.3	456.8	..	100.2	12	13	..	7.5	5.2	..	21	0	0	1	0	0	0	0	0	0		
Lakhimpur Kheri	31.3	..	35.0	16	25.4	..	23.6	14	152.4	449.6	..	108.8	11	17	..	5.0	3.0	..	24	0	0	5	0	0	0	0	0	0		
Bahraich	31.4	-0.9	35.3	16	25.7	-0.1	24.3	13	121.1	258.6	-66.3	48.2	5	14	+1.5	8.3	5.9	+2.4	18	0	0	0	0	0	0	0	0	0		
Uttar Pradesh (West)																														
Orai	32.4	..	35.6	16,17, 18	24.1	..	21.7	18	75.4	159.2	..	19.6	6	14	..	8.7	7.2	..	20	0	0	0	0	0	0	0	0	0		
Jhansi	32.2	+0.4	35.3	17,24	25.4	+0.5	23.9	6	129.0	299.1	+4.7	72.1	10	11	-2.3	5.4	4.5	-1.1	12	0	0	0	0	0	0	0	0	0		
Agra	32.1	-0.9	35.5	17	25.7	-0.4	24.0	6	213.8	333.0	+127.0	79.4	31	15	+4.7	5.1	4.5	-1.5	16	0	0	0	0	0	0	0	0	0		
Agra (Aerodrome) (R)																														
Mainpuri	32.8	-0.4	36.8	17	26.5	+0.7	24.0	11,12	179.1	458.9	+229.0	112.0	10	12	+1.5	3.3	2.7	-0.4	14	0	0	1	0	0	0	0	0	0		
Aligarh	32.5	-0.6	36.4	17	25.8	+0.1	24.2	23	117.2	274.7	+73.3	85.4	1	10	+0.6	5.9	5.0	-1.6	15	0	0	4	0	0	0	0	0	0		
Bareilly	31.5	-0.8	35.8	16	25.6	-0.1	23.5	14	160.6	370.4	+75.8	64.0	11	16	+3.7	5.4	3.8	+0.9	18	0	0	7	0	0	0	0	0	0		
Meerut	32.8	0	36.1	17	25.9	+0.2	23.2	23	..	405.6	+182.1	168.0	4	12	+2.2	..	4.4	..	13	0	0	0	0	0	0	0	0	0		
Najibabad	31.8	..	34.8	16	24.2	..	21.8	14	218.0	398.2	..	77.6	29	13	..	4.1	3.4	..	15	0	0	4	0	0	0	0	0	0		
Roorkee	32.2	+0.1	36.4	17	25.0	-0.1	22.9	23	132.1	320.9	+35.9	95.5	7	16	+4.2	6.9	4.8	+1.6	17	0	0	2	0	0	0	0	0	0		
Dehra Dun	28.9	-0.3	32.1	17	22.5	-0.2	19.7	29	262.9	989.6	+258.3	202.6	10	23	+1.7	1.3	2.0	-0.3	26	0	0	10	0	0	0	0	0	0		
Punjab (India) (Including Delhi)																														
New Delhi	33.2	-0.4	37.9	17	26.0	-0.1	24.0	24	109.5	239.2	+55.6	58.2	4	14	+5.9	9.8	8.3	-0.6	15	0	0	7	0	0	0	0	7	0		
Hissar	36.9	+1.2	40.8	17	26.0	-0.1	23.3	29	48.0	83.7	-40.0	38.8	6	5	-0.5	7.5	6.9	-1.0	9	0	0	5	0	1	0	0	0	0		
Kaushal	31.9	..	35.4	14	24.9	..	23.1	22	19.0	41.7	..	14.7	4	7	..	..	..	..	14	0	0	1	0	0	0	0	0	0
Patiala	33.4	..	36.6	17	25.1	..	22.8	27	137.1	218.8	-26.6	68.0	22	9	-0.2	7.9	6.0	..	13	0	0	4	0	0	0	0	0	0		
Ambala	33.2	-0.8	36.6	17	25.1	-0.5	21.8	30	99.6	230.6	+30.2	50.8	4	8	-1.0	8.2	6.4	+2.7	9	0	0	0	0	0	0	0	0	0		
Ambala (Aero-drome)	32.3	..	35.8	18	24.8	..	21.4	2	99.1	271.3	..	52.8	6	13	..	..	..	..	14	0	0	11	0	0	0	0	0	0
Chandigarh	33.4	..	37.0	20	24.2	..	22.2	24	110.2	249.3	..	70.0	1	10	..	..	..	..	10	0	0	0	0	0	0	0	0	0
Ludhiana	34.9	0	37.8	20	25.5	-0.7	21.5	22	80.8	128.6	-40.3	72.2	6	7	-0.3	4.4	3.5	+1.1	8	0	0	0	0	0	0	0	0	0		
Ferozepur	36.4	..	40.0	3	26.2	..	21.6	28	137.8	152.2	..	50.4	8	4	..	3.6	2.4	..	4	0	0	0	0	2	0	0	0	0		
Amritsar	35.0	..	39.1	9	24.9	..	21.0	13	43.5	47.5	..	34.5	13	3	..	11.5	9.2	..	8	0	0	7	0	0	0	0	4	1		
Pathankot	32.9	..	35.2	18	24.0	..	20.1	27	124.5	459.9	..	110.2	7	11	..	3.5	2.1	..	12	0	0	1	0	0	0	0	0	0		
Pathankot (Aero-drome)	32.6	..	35.1	20	24.3	..	20.9	27	136.9	339.0	..	117.9	7	10	..	7.6	6.3	..	13	0	0	11	0	0	0	0	0	0		
Himachal Pradesh																														
Bilaspur	32.0	..	34.7	17	23.3	..	20.2	27	76.0	242.4	..	60.2	6	7	..	5.2	3.8	..	12	0	0	3	1	0	0	0	1	0		
Mandi	31.1	..	33.4	17	21.0	..	18.1	31	193.2	409.1	..	77.0	4	17	..	2.5	2.0	..	23	0	0	5	0	0	0	0	0	0		
Jammu and Kashmir																														
Srinagar	28.8	-1.5	35.2	3	16.7	-0.7	11.8	30	36.6	67.4	+5.9	19.2	6	5	-0.3	5.5	4.6	+0.9	11	0	0	4	0	0	0	0	0	0		
Gulmarg	19.4	1.1	24.5	3	8.3	-2.6	3.4	29	57.8	148.2	+30.3	55.8	6	9	-0.9	6.8	3.9	-0.4	18	0	0	8	0	0	0	0	0	0		
Sonamarg*																														
Dras		
Kargil (R)																														
Leh	22.8	-1.6	30.4	4	9.1	-0.7	5.0	18	2.5	10.9	-4.1	7.1	6	2	+0.1	5.8	5.7	+3.0	2	0	0	0	0	0	0	0	0	0		
Skardu (R)																														
Gurez		127.0	+41.1	38.1	10,26	4	-3.4	4	
Gilgit (R)																														
Misgar (R)																														
Jammu	33.2	0	36.2	19,20	23.4	-0.2	21.0	13	..	612.0	+313.5	158.4	6	11	-0.1	15	0	0	3	0	0	0	0	0	0	0	
Gund		51.6	..	23.0	17	4	13	
Pandras		12.8	..	6.6	6	2	6	
Panamik		2.0	..	2.0	7	0	1	
Khangral (R)																														
Digar		..	..	..	..	..	..	..	..	9.6																		

(R) Register not received.

*Data not reliable.

TABLE II.—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—AUGUST, 1958 (SRAVANA 10—BHADRA 9, 1880 SAKA) 399

Division and station	Air temperature in °C										Rainfall in millimetres					No. of rainy days (2-5 mm. or more)	Wind speed, kms. per hour					Weather phenomena—No. of days with									
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0630-1730 hours	Total fall in 24 hours	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0630-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall	Line squall				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29		
Rajasthan (West) contd.																															
Bikaner	39.2	+2.8	42.0	22	28.5	+1.6	25.9	5	2.0	3.8	-87.6	2.0	18	0	-4.9	10.7	10.4	+0.3	4	0	0	2	0	0	0	0	0	0	0		
Jaisalmer	38.2	..	43.3	20	26.3	..	23.9	23	0	49.7	..	23.4	23	3	..	20.4	19.7	..	3	0	0	0	0	0	0	0	0	0	0		
Phalodi	37.3	..	42.1	22	27.7	..	24.0	29	0	29.0	-51.5	29.0	29	1	-3.4	19.7	18.9	..	1	0	0	0	0	0	0	0	0	0	0		
Nagaur	36.9	..	40.3	22	27.3	..	23.9	17,23	12.6	12.1	0	0	1	0	0	0	0	0	0	0	0	
Jodhpur	36.9	+3.7	41.2	19	27.3	+2.3	24.5	8	10.4	16.5	-106.4	9.8	24	2	+3.9	14.0	12.7	-1.9	4	0	0	5	0	0	0	0	1	0	0		
Barmer	37.4	+3.8	42.0	20	26.9	+2.0	25.4	18	0	10.9	-123.0	6.6	18	2	-3.8	14.3	13.0	+2.7	3	0	0	4	0	0	0	0	0	0	0		
Rajasthan (East)																															
Pillani	37.0	..	40.6	17	26.9	..	24.6	5	3.6	16.9	..	8.9	27	1	..	13.1	12.2	..	6	0	0	0	0	0	0	0	0	0	0		
Alwar	33.1	..	37.3	16,20	25.6	..	23.5	24	120.2	274.3	..	57.0	22	14	..	4.6	3.9	..	17	0	0	4	0	0	0	0	0	0	0		
Sikar	35.6	..	38.1	22	25.9	..	23.9	4days	2.6	21.1	..	9.1	5	4	..	11.1	8.3	..	6	0	0	0	0	0	0	0	0	0	0		
Jaipur	33.0	+0.3	36.9	17	24.6	+0.2	21.8	26	51.9	184.5	-20.2	49.4	25	12	+1.8	8.3	4.9	-2.3	16	0	0	1	0	0	0	0	0	0	0		
Jaipur (Sanganer Aerodrome)	32.9	..	36.3	18	24.5	..	21.6	25	58.6	221.7	..	70.4	25	9	..	(a)	..	..	13	0	0	7	0	0	0	0	0	4	0
Dholpur	32.5	..	36.1	16,17	25.4	..	23.3	12	76.1	367.3	..	93.2	10	13	..	6.6	5.1	..	17	0	0	8	0	0	0	0	0	0	0		
Ajmer	32.8	+1.9	35.7	17	25.4	+1.0	21.8	27	102.1	113.5	-58.0	42.6	4	6	-2.4	10.6	8.1	-0.1	9	0	0	4	0	0	0	0	0	0	0		
Kotah	33.2	+1.2	35.9	25	26.2	+0.8	24.7	7	142.5	196.9	-48.5	42.6	17	12	+1.6	7.0	5.8	+0.3	14	0	0	5	0	0	0	0	0	0	0		
Chambal	32.0	..	34.7	25	24.6	..	22.6	26	142.0	198.9	..	106.0	26	11	..	8.2	5.3	..	16	0	0	9	0	0	0	0	0	0	0		
Jhalawar	32.4	+1.8	35.6	25	24.9	+1.0	23.1	6	111.3	158.9	-133.4	58.4	21	8	-4.8	8.9	6.4	+0.1	15	0	0	5	0	0	0	0	0	0	0		
Udaipur	30.7	+1.0	33.8	15	23.5	+0.3	21.7	28	147.8	220.3	+42.2	60.2	24	11	+2.4	4.6	3.5	..	15	0	0	1	0	0	0	0	0	0	0		
Erinpura (Jawai Dam)	33.5	..	36.1	19,31	25.7	..	23.9	18	16.2	25.6	..	6.8	23	4	..	7.0	9.0	..	6	0	0	0	0	0	0	0	0	0	0		
Madhya Pradesh (West)																															
Gwalior (P.B.O.)	31.7	-0.2	34.8	16	25.3	0	23.7	31	132.7	264.7	+34.3	50.0	3	13	+0.3	10.0	7.1	..	15	0	0	10	0	0	0	0	0	0	0	0	
Sheopur Kalan	32.1	..	35.1	16	24.8	..	23.3	11	199.8	321.4	..	76.6	10	14	..	9.2	6.6	..	15	0	0	6	0	0	0	0	0	0	0	0	
Guna	30.7	+1.1	33.4	25	23.9	+0.8	22.3	28	110.1	165.5	-226.9	25.8	3	12	-1.6	13.1	8.7	..	20	0	0	1	0	0	0	0	0	0	0		
Rajgarh	31.8	..	34.3	24	24.2	..	21.7	30	116.5	197.6	..	36.7	26	10	..	12.3	9.2	..	10	0	0	10	0	0	0	0	0	0	0		
Neemuch	30.6	+1.3	32.9	19	23.7	+1.0	22.2	29	116.3	142.5	-89.9	42.2	15	13	+3.0	11.1	9.7	-3.0	16	0	0	6	0	0	0	0	0	0	0		
Radlam	30.3	..	32.4	24	23.0	..	21.1	28,29	23.2	150.4	..	35.8	29	11	..	6.7	4.5	..	21	0	0	10	0	0	0	0	0	0	0	0	
Alirajpur	30.4	..	33.7	24	24.1	..	22.6	19,20	55.1	209.1	..	44.2	19	11	..	11.1	9.1	..	20	0	0	0	0	0	0	0	0	0	0		
Indore	29.7	+1.6	32.2	24	22.5	+0.7	21.1	7	163.9	405.9	+198.9	81.4	16	18	+6.7	17.0	14.3	..	23	0	0	10	0	0	0	0	1	0	0		
Bhopal (Bairagarh)	29.9	+1.2	33.4	25	23.2	+0.6	22.0	31	226.7	348.6	+70.7	64.0	25	15	+0.2	13.4	9.2	-2.2	20	0	0	11	0	0	0	0	3	0	0		
Khandwa	30.6	+0.7	33.7	24	23.6	+0.3	20.7	26	174.9	296.3	+137.6	52.2	24	16	+6.1	11.0	8.3	-2.6	23	0	0	0	0	0	0	0	0	0	0		
Hoshangabad	30.7	+1.5	33.6	25	24.6	+1.0	21.3	14	101.2	176.0	-206.5	27.8	27	16	+0.3	19	0	0	13	0	0	0	0	0	0	0	0	
Betul	28.0	..	31.6	25	22.2	..	20.4	25	242.0	301.8	..	43.8	13	22	..	7.0	4.9	..	26	0	0	6	0	0	0	0	0	0	0	0	
Chhindwara	27.9	..	32.2	25	22.4	..	21.1	8	251.4	439.3	..	97.1	14	16	..	8.7	5.9	..	25	0	0	7	0	0	0	0	0	0	0	0	
Seoni	29.0	+0.8	31.9	25	22.6	+0.7	21.5	3	124.2	338.6	+0.5	45.6	26	21	+4.5	6.7	3.8	-2.3	23	0	0	13	0	0	0	0	0	0	0	0	
Sagar	30.0	+1.4	32.8	25	22.7	+0.6	21.6	6,13	225.8	364.8	+7.4	94.9	3	16	+0.4	9.6	7.9	..	21	0	0	16	0	0	0	0	0	0	0	0	
Nowrang	32.2	+1.0	35.9	25	24.4	-0.5	22.8	5	92.0	169.0	-163.5	28.2	11	16	+2.1	7.9	5.9	+1.9	19	0	0	12	0	0	0	0	0	0	0	0	
Madhya Pradesh (East)																															
Sutna	31.0	+1.0	33.9	24	24.9	+0.3	22.6	5,6	110.6	268.4	-66.9	56.6	1	13	-2.1	5.9	3.3	-3.6	19	0	0	8	0	0	0	0	0	0	0	0	
Sidhi	32.3	..	33.9	19	24.8	..	22.2	6	108.9	261.2	..	46.8	5	17	..	9.3	6.2	..	17	0	0	0	0	0	0	0	0	0	0		
Umaria	31.2	+1.8	33.9	25	24.2	+0.6	22.6	6	66.0	235.9	-97.3	54.7	11	17	+1.0	6.1	4.4	-1.9	22	0	0	3	0	0	0	0	0	0	0	0	
Jabalpur	30.9	+1.7	33.9	24	24.3	+1.2	22.5	13	269.1	326.7	-104.3	111.2	14	15	-2.4	3.7	1.9	-3.1	21	0	0	12	0	0	0	0	0	0	0	0	
Mandla	30.6	..	33.6	25	23.0	..	21.0	3	145.6	347.7	..	46.4	3	21	..	5.7	3.6	..	24	0	0	16	0	0	0	0	0	0	0	0	
Pendra	28.9	+1.0	32.2	26	22.8	+0.6	21.6	11	95.5	302.0	-61.7	53.2	19	18	-0.4	9.7	7.0	..	23	0	0	10	0	0	0	0	0	0	0	0	
Ambikapur	29.9	..	34.2	25	23.1	..	20.7	11	110.2	324.1	..	39.4	10	17	..	10.8	9.0	..	21	0	0	1									

(a) Mean of 30 days.

(c) Mean of 28 days.

(e) Mean of 26 days.

400 TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—AUGUST, 1958 (SRAVANA 10—BHADRA 9, 1880 SAKA)

Division and station	Air temperature in °C									Rainfall in millimetres						No. of rainy days (2·5 mm. or more)			Wind speed, kms. per hour			Weather phenomena—No. of days with								
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Wind				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
Saurashtra and Kutch																														
Naliya . .	32.2	..	34.4	30	26.2	..	24.5	6	0	0.5	..	0.5	12	0	..	23.1	18.8	..	1	0	0	0	0	0	0	0	0	0		
Bhuj (P.B.O.) .	34.5	+3.2	37.6	30	26.3	+1.6	24.6	18	9.7	17.4	-57.0	7.0	18.30	2	-1.7	16.0	14.5	-2.1	6	0	0	1	0	0	0	0	0	0		
Bhuj (Aerodrome)	34.5	..	36.8	24.30	26.1	..	22.9	15	0.9	8.9	..	7.5	18	1	..	17.1	17.1	..	4	0	0	0	0	0	0	0	0	0		
Kandla . .	33.1	..	35.8	10	26.6	..	24.5	19	2.1	32.4	..	18.2	19	3	..	28.2	26.2	..	7	0	0	2	0	0	0	0	4	0		
Mandvi . .	31.3	..	32.8	30	27.1	..	23.4	19	1.3	16.3	..	11.0	19	1	..	31.5	29.8	..	4	0	0	0	0	0	0	0	1	0		
Dwarka . .	30.5	+1.2	31.6	18	26.7	+0.8	24.9	19	2.2	17.8	-47.7	12.2	19	1	-2.8	18.0	17.9	-2.4	7	0	0	0	0	0	0	0	0	0		
Porbander . .	31.0	..	32.9	30	26.6	..	24.4	19	12.2	54.4	..	16.8	19	6	..	..	..	..	16	0	0	0	0	0	0	0	0	0
Porbander (Aero-drome) . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	0	0	0
Jamnagar . .	33.5	+2.1	35.6	10	25.5	+0.1	23.7	28	2.3	62.7	-35.1	46.2	23	2	-3.2	..	..	..	5	0	0	4	0	0	0	0	0	0
Rajkot (Aero-drome)	33.5	+1.9	35.9	12	24.4	+0.6	22.4	19	48.5	164.8	+35.3	57.0	30	7	0	24.3	21.1	+4.7	12	0	0	3	0	0	0	0	0	0		
Surendranagar . .	34.6	..	36.9	13	26.1	..	23.2	24	1.8	100.0	..	41.6	19	4	..	14.4	14.8	..	6	0	0	0	0	0	0	0	0	0		
Bhavnagar . .	32.9	+0.2	36.1	6	25.4	+0.6	22.4	19	84.5	262.9	+127.5	55.0	27	14	+6.7	10.7	10.0	-0.1	16	0	0	2	0	0	0	0	0	0		
Bhavnagar (Aero-drome)	33.0	..	36.8	6	25.5	..	22.2	19	..	248.0	..	55.0	27	11	..	..	16.8	..	14	0	0	3	0	0	0	0	0	0
Mahuva . .	31.0	..	33.4	31	24.8	..	22.6	19	195.4	259.4	..	42.4	27	15	..	14.3	11.7	..	20	0	0	0	0	0	0	0	0	0		
Keshod . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	16.1	..	..	0	0	1	0	0	0	0	0	0
Veraval . .	30.0	..	31.2	18	26.1	..	23.5	19	49.5	108.3	+16.6	30.8	16	8	+2.1	22.2	22.4	..	17	0	0	0	0	0	0	0	0	0		
Konkan																														
Dahanu . .	29.2	-0.4	31.0	11	24.7	-0.6	22.7	31	669.8	900.7	+507.0	154.7	14	23	+6.2	18.2	15.6	-7.9	28	0	3	3	0	0	0	0	0	0		
Bombay (Colaba)	29.3	-0.1	31.7	12	24.6	+0.1	21.8	19	321.6	1265.4	+925.3	179.3	24	25	+6.0	13.0	11.3	-4.6	29	0	0	4	0	0	0	0	3	0		
Bombay (Santa-cruz Aerodrome)	28.9	-0.3	30.6	1,2	24.3	+0.3	21.1	19	356.5	1254.0	+913.9	218.0	24	26	+7.0	15.1	12.6	..	29	0	0	5	0	0	0	0	3	0		
Alibag . .	28.5	-0.3	30.9	11	24.5	-0.5	22.5	30	..	1253.8	+836.2	150.7	24	28	+6.9	..	17.5	-6.2	29	0	0	1	0	0	0	0	0	0		
Harnai . .	27.9	-0.6	29.6	11	24.4	-0.1	22.7	15	421.6	1217.4	+705.8	171.0	24	25	+5.2	13.4	12.3	-6.9	27	0	0	2	0	0	0	0	0	0		
Ratnagiri . .	28.1	..	30.6	1	23.9	..	22.8	17,19	377.3	1213.9	+728.0	171.4	13	27	+3.7	..	..	..	29	0	0	0	0	0	0	0	0	0
Devgad . .	28.0	-0.8	29.8	11	24.1	-0.9	22.6	15	419.6	1068.6	+670.6	114.2	23	28	+7.8	21.9	19.6	-4.9	29	0	0	2	0	0	0	0	0	0		
Vengurla . .	27.7	..	29.7	11	23.8	..	22.4	20	538.3	1274.3	..	177.6	8	27	..	9.8	7.2	..	29	0	0	3	0	0	0	0	0	0		
Maharashtra																														
Nandurbar . .	31.2	..	34.6	9.24	24.1	..	22.8	20	30.8	117.3	..	56.1	30	7	..	9.8	8.0	..	20	0	0	0	0	0	0	0	0	0		
Jalgaon . .	31.6	..	34.9	12	24.1	..	22.7	19	130.3	287.0	+125.5	82.8	26	18	+6.7	15.0	11.2	..	24	0	0	7	0	0	0	0	0	0		
Malegaon . .	30.2	-0.5	33.1	5	23.0	+0.8	20.7	19	212.1	347.6	+270.4	63.0	13	20	+14.7	11.2	8.4	-5.4	22	0	0	4	0	0	0	0	0	0		
Deolali . .	27.6	..	31.3	11	21.9	..	20.8	19	52.7	136.1	..	48.0	13	10	..	17.0	13.3	..	21	0	0	5	0	0	0	0	0	0		
Aurangabad . .	29.4	+0.1	32.5	5	22.0	+1.1	21.0	18	185.6	381.4	+259.7	84.4	31	17	+8.1	16.1	12.8	-3.5	26	0	0	10	0	0	0	0	0	0		
Aurangabad (Chikalthana Aerodrome) . .	29.6	..	33.1	5	21.8	..	20.6	18,19	124.8	313.4	..	58.7	31	16	..	16.9	13.6	..	18	0	0	10	0	0	0	0	0	0		
Khandala . .	..	..	..	..	..	..	..	..	1285.7	+23.3	93.2	28	30	+0.7	..	..	..	31	..	..	..	..	..	..	..	..	..	..
Ahmednagar . .	29.4	-0.2	33.1	10	21.2	+0.6	16.9	10	33.7	269.7	+200.6	63.2	10	14	+9.4	9.5	6.8	-7.4	18	0	0	0	0	0	0	0	0	0		
Parbhani . .	30.4	..	33.6	10	22.7	..	21.5	19,22	110.2	322.0	+174.4	75.8	31	18	+9.0	11.7	9.5	..	22	0	0	10	0	0	0	0	0	0		
Poona . .	28.3	+0.7	32.6	10	22.0	+0.6	20.4	19	75.1	132.9	+42.7	31.6	12	12	+3.7	6.7	4.3	-10.0	24	0	0	3	0	0	0	0	0	0		
Poona (Lohagaon Aerodrome) . .	28.1	..	32.2	10	21.3	..	19.9	18	93.5	161.8	..	42.4	24	12	..	..	..	26	0	0	4	0	0	0	0	0	0	0
Baramati . .	29.9	..	34.5	10	21.8	..	20.0	7	51.2	188.7	..	41.4	22	10	..	16.1	13.6	..	13	0	0	5	0	0	0	0	0	0		
Jeur . .	30.3	..	33.8	4,8,10	21.7	..	19.6	19	59.3	266.9	..	94.2	22	15	..	16.6	12.1	..	20	0	0	0	0	0	0	0	0	0		
Sholapur . .	30.0	-1.6	34.4	8	22.2	+0.5	20.2	19	103.8	518.8	+410.1	128.9	13	21	+14.0	11.0	8.7	-5.3	24	0	0	7	0	0	0	0	0	0		
Miraj . .	27.6	-0.2	31.7	10	21.4	+0.3	20.5	14	108.9	193.6	+74.0	39.1	23	15	+5.8	16.9	12.7	-2.1	22	0	0	0	0	0	0	0	0	0		
Kothapur . .	26.6	+0.2	31.2	10	21.2	+0.2	20.1	14	98.7	232.1	+10.6	29.1	31	20	+1.5	16.4	12.7	-4.5	24	0	0	2	0	0	0	0	0	0		
Vidarbha																														
Buldhana . .	26.0	..	28.9	11	21.8	..	20.4	19	167.8	421.5	..	50.1	26	23	..	9.5	6.1	*	27	0	0	0	2	0	0	0	0	0		
Akola . .	31.1	+0.3	34.3	11,12	24.1	+0.9	23.0	2	35.2	268.5	+108.0	125.2	26	12	+2.9	11.2	8.9	-1.4	18	0	0	4	0	0	0	0	0	0		
Amravati . .	30.3	+0.4	34.2	25</td																										

(a) Mean of 30 days.

(c) Mean of 28 days.

(f) Mean of 25 days.

(g) Mean of 24 days

TABLE II.—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—AUGUST, 1958 (SRAVANA 10—BHADRA 9, 1880 SAKA)

Division and station	Air temperature in °C								Rainfall in millimetres				No. of rainy days (2.5 mm. or more)		Wind speed, knts. per hour		Weather phenomena—No. of days with													
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
Coastal Andhra Pradesh.																														
Nellore . .	33.8	-1.8	37.2	7	26.2	-0.1	23.2	20	9.0	149.5	+72.8	69.8	20	5	-0.5	9.3	6.9	-2.0	10	0	0	4	0	0	0	0	0	0	0	
Ongole . .	31.9	..	35.1	2	25.8	..	24.1	16.2 ^b	1.0	88.4	..	30.6	11	6	..	9.9	6.1	..	9	0	0	1	0	0	0	0	0	0	0	
Rentachintala . .	31.9	-1.9	35.6	6,10	24.3	1.5	21.7	13	44.0	265.0	+175.1	103.0	13	11	+3.2	10.4	7.4	-6.4	12	0	0	2	0	0	0	0	0	0	0	
Gannavaram . .	30.9	..	33.4	8	25.0	..	23.2	16	71.0	312.3	..	55.4	30	15	..	14.2	12.0	..	20	0	0	5	0	0	0	0	0	0	0	
Masulipatam . .	30.6	-2.3	33.1	1	25.6	+0.1	23.8	12.1 ^c	36.3	193.9	+34.9	49.8	26	11	+0.8	12.5	9.8	+0.1	17	0	0	7	0	0	0	0	0	0	0	
Nidadavolu . .	29.6	..	32.8	1,12	25.2	..	23.9	2,12	31.5	113.9	..	46.4	12	8	..	13.2	9.5	..	12	0	0	8	0	0	0	0	0	0	0	
Kakinada . .	30.7	-1.4	33.6	1	25.8	+0.1	23.6	12	34.0	181.6	+40.4	96.0	24	8	-1.6	13.2	11.1	+2.4	14	0	0	1	0	0	0	0	0	0	0	
Visakhapatnam . .	32.4	-0.8	35.2	1	26.1	+0.4	24.2	15.2 ^c	52.1	96.6	-34.5	24.4	27	9	+0.8	16.9	10.7	-1.5	17	0	0	10	0	0	0	0	4	0	0	
Calingapatam . .	31.4	-0.8	35.1	1	26.2	+0.3	23.9	7	46.1	101.8	-70.9	24.1	7	11	+1.5	11.8	10.9	+1.1	13	0	0	0	0	0	0	0	0	0	0	
Telangana																														
Ramagundam . .	31.7	..	35.1	12	24.7	..	22.0	12	111.8	408.6	..	53.2	14	16	..	8.1	6.3	..	18	0	0	8	0	0	0	0	0	0	0	0
Nizamabad . .	29.6	-0.8	37.3	10	23.0	+0.2	21.1	18.19	51.3	502.5	+254.6	67.1	31	21	+7.2	9.1	6.9	-0.8	24	0	0	2	0	0	0	0	0	0	0	
Mahbubnagar . .	29.4	..	33.5	10	22.5	..	20.4	21.22	41.4	219.7	..	27.7	18	17	..	13.3	11.1	..	23	0	0	5	0	0	0	0	0	0	0	
Hyderabad (Begumpet Aerodrome). .	28.9	-0.7	31.8	10	22.0	+0.1	19.8	19	36.3	195.8	+61.4	28.5	21	14	+4.1	20.0	16.3	-0.1	20	0	0	8	0	0	0	0	3	0		
Hakimpet . .	28.2	..	31.3	6	21.7	..	19.4	19	88.4	241.4	..	45.3	30	14	..	..	..	..	22	0	0	11	0	0	0	0	0	0	0
Hanamkonda . .	30.5	+0.1	33.3	7	23.9	0	21.9	6	83.0	288.8	+111.5	70.8	27	20	+9.3	12.3	9.7	0	23	0	0	5	0	0	0	0	0	0	0	
Bhadrachallam . .	31.3	..	34.7	11	24.7	..	23.0	3	101.6	330.4	..	67.0	18	15	..	7.7	5.8	..	18	0	0	3	0	0	0	0	0	0	0	
Khammameth . .	31.3	..	34.1	14	24.4	..	23.3	7	78.6	192.5	..	38.2	27	14	..	9.1	6.9	..	14	0	0	7	0	0	0	0	0	0	0	
Rayalaseema																														
Arogyavaram . .	29.1	..	31.6	1	21.3	..	18.1	4	27.0	181.6	..	61.4	4	9	..	14.7	11.4	..	16	0	0	1	0	0	0	0	0	0	0	
Cuddapah . .	32.3	-2.5	35.9	10	24.5	-0.8	21.2	4	26.0	255.4	+122.3	56.0	14	11	+3.3	9.1	5.7	-4.9	17	0	0	0	0	0	0	0	0	0	0	
Anantapur . .	32.1	..	34.9	1	23.6	..	21.8	15	28.6	96.7	+12.9	30.0	22	10	+5.2	18.5	14.3	..	14	0	0	5	0	0	0	0	0	0	0	
Kurnool . .	30.9	-1.6	34.4	10	23.3	-0.2	21.8	21	63.1	272.2	+157.9	43.4	17	20	+11.4	18.0	14.5	-0.3	24	0	0	0	0	0	0	0	0	0	0	
Madras State																														
Palayamcottai . .	31.4	..	35.0	26	26.1	..	24.3	4	58.1	61.4	+44.6	57.0	6	2	+1.0	(c)	21.9	16.9	..	4	0	0	2	0	0	0	0	0	0	0
Tuticorin . .	34.1	..	36.9	28	26.5	..	24.1	4	0	10.0	..	6.0	4	2	..	21.1	17.7	..	2	0	0	0	0	0	0	0	0	0	0	
Pamban . .	29.5	-2.2	31.9	5	26.4	+0.4	24.2	10	23.6	30.6	+15.6	28.8	10	1	0	13.3	11.7	-1.3	2	0	0	0	0	0	0	0	0	0	0	
Mathurai . .	35.2	+0.1	39.2	!	24.6	-0.1	21.8	4	38.0	121.1	+17.5	32.0	20	8	+2.0	7.1	6.3	+0.2	9	0	0	0	0	0	0	0	0	0	0	
Nagapattinam . .	33.6	-0.9	36.5	1	23.8	+0.4	23.3	10,19	17.0	49.1	-28.4	21.0	11	5	+0.1	12.4	10.3	+1.9	7	0	0	4	0	0	0	0	0	0	0	
Tiruchirappalli . .	34.2	-1.6	37.2	1	24.7	-0.4	21.9	5	16.3	152.4	+55.1	67.9	7	7	+2.3	25.4	21.9	-2.6	10	0	0	7	0	0	0	0	0	0	0	
Coimbatore . .	28.6	-2.2	30.7	6	22.3	+0.6	20.4	7	3.4	47.0	+15.8	28.4	7	3	-0.1	18.9	15.1	+6.4	8	0	0	2	0	0	0	0	0	0	0	
Coimbatore (Peelamedu Aerodrome) . .	31.3	..	33.3	27	22.1	..	20.5	7	4.2	39.6	..	22.2	7	4	..	34.6	28.1	..	8	0	0	3	0	0	0	0	13	0	0	
Salem . .	32.0	-1.5	36.7	2	22.6	-0.3	20.3	7	87.2	248.6	+81.7	45.4	10	15	+5.1	7.1	6.6	+0.6	19	0	0	8	0	0	0	0	0	0	0	0
Kallakurichi . .	34.7	..	37.8	2	25.1	..	22.8	21	5.2	62.1	..	18.0	[3	4	..	9.5	8.8	..	15	0	0	1	0	0	0	0	0	0	0	0
Cuddalore . .	33.5	-1.1	36.5	2	25.2	+0.2	22.3	21	27.2	183.5	+61.6	40.2	15	9	+1.9	7.3	6.3	-0.5	12	0	0	1	0	0	0	0	0	0	0	
Vellore . .	33.6	-0.4	36.1	2	24.6	-0.1	22.3	20	33.6	205.5	+59.7	42.4	8	13	+5.6	19	0	0	9	0	0	0	0	0	0	0	0
Tambaram Aerodrome . .	33.8	..	37.6	3	25.0	..	22.2	20	70.8	220.1	..	58.1	11	14	17	0	0	5	0	0	0	0	0	0	0	0
Madras . .	32.8	-2.1	36.1	3	25.6	0	22.3	20	18.1	147.6	+31.3	45.8	10	13	+5.1															

402 TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—AUGUST, 1958 (SRAVANA 10—BHADRA 9, 1890 SAKA)

Division and station	Air temperature in °C										Rainfall in millimetres					No. of rainy days (2.5 mm. or more)	Wind speed, kms. per hour	Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Mean precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Mysore (South)																													
Bellary . .	31.1	-1.4	34.0	5.6	24.1	+0.8	22.4	27	24.8	41.8	-18.7	17.0	6	5	+1.0	13.7	10.8	-1.9	8	0	0	1	0	0	0	0	0	0	
Chitaldrug . .	27.3	-0.8	30.4	5	21.0	+0.7	19.6	22	77.8	127.2	+41.3	27.4	10	12	+4.6	12.0	11.5	-0.4	20	0	0	1	0	0	0	0	0	0	
Shimoga . .	27.3	..	30.4	10	21.6	..	20.7	23	63.5	101.2	..	12.6	18	12	..	8.4	5.4	..	24	0	0	0	0	0	0	0	0	0	
Balehonnur . .	23.5	+0.2	26.7	9	19.0	+0.4	18.1	2	..	395.3	+0.9	50.0	25	27	+2.5	..	..	..	31	0	0	0	0	0	0	0	0	0
Hassan . .	25.1	-0.8	28.5	9	19.2	+0.7	18.1	22	53.6	108.4	+9.3	22.0	11	12	+2.8	14.2	11.3	+1.3	24	0	0	2	0	0	0	0	0	0	
Mysore . .	27.5	-0.8	29.7	6	19.3	0	18.3	4	45.6	76.4	-7.2	29.6	5	6	-1.0	16.5	12.0	-0.4	11	0	0	1	0	0	0	0	0	0	
Bangalore (Central Observatory)	26.8	-0.6	29.3	1	19.4	+0.7	18.3	22	112.9	287.9	+161.4	52.6	6	16	+6.7	15.8	13.0	+1.3	23	0	0	4	1	0	0	0	2	0	
Bangalore (Aerodrome)	27.3	..	31.1	6	19.6	..	18.3	22	55.7	164.2	..	42.3	4	12	..	..	..	..	21	0	0	6	0	0	0	0	3	0
Kerala																													
Kozhikode . .	28.4	+0.1	30.3	2	23.9	+0.4	22.7	22.25	85.4	338.1	-97.8	68.4	22	25	+5.7	10.7	8.6	+1.4	28	0	0	0	0	0	0	0	0	0	
Palghat . .	28.5	..	30.2	12	23.2	..	20.9	7	169.8	405.1	..	56.4	7	21	..	15.7	12.9	..	29	0	0	3	0	0	0	0	0	0	
Fort Cochin . .	28.0	0	29.6	31	23.9	0	22.1	8	81.4	445.8	+93.0	88.9	7	23	+4.3	11.8	8.9	+0.9	29	0	0	0	0	0	0	0	0	0	
Cochin (Naval Air Station)	28.9	..	30.5	3	23.9	..	21.6	22	74.5	457.4	..	95.5	7	22	..	9.2	6.3	..	29	0	0	4	0	0	0	0	3	0	
Alleppey . .	28.1	..	30.1	2	23.4	..	22.1	22.24	65.0	458.2	..	120.0	7	21	..	14.5	11.9	..	28	0	0	1	0	0	0	0	1	0	
Punalur . .	29.5	..	32.1	14	23.2	..	21.8	23	94.2	493.8	..	60.0	7	23	..	8.2	4.6	..	23	0	0	0	0	0	0	0	0	0	
Trivandrum . .	28.8	-0.3	31.7	4	23.4	+0.1	21.6	7	108.8	243.8	+123.7	49.6	7	19	+9.2	16.0	11.1	+0.5	26	0	0	0	2	0	0	0	0	0	
Trivandrum (Aerodrome)	28.6	..	30.0	3	23.7	..	22.0	22	..	230.1	..	55.6	6	14	..	..	8.6	..	25	0	0	1	0	0	0	0	0	0
Arabian Sea Islands Minicoy*																													
Amini Divi* Hill Stations excluding Kashmir Walong (R.)																													
Kohima . .	23.7	..	26.7	31	18.6	..	17.7	22	157.5	332.6	..	35.8	18	22	..	..	..	..	26	0	0	0	0	0	0	0	0	0
Aijal . .	24.4	..	27.9	31	19.5	..	18.8	7days	49.2	219.3	..	27.9	28	22	..	10.5	11.6	..	26	0	0	0	0	0	0	0	0	0	
Shillong . .	24.0	+0.1	27.0	31	18.0	+0.2	15.6	22	71.5	189.5	-127.8	36.6	11	15	-3.5	2.8	1.8	-0.9	23	0	0	0	0	0	0	0	0	0	
Cherrapunji . .	21.6	-0.9	25.6	31	18.0	-0.5	17.4	8days	922.0	3482.0	+1702.0	512.0	11	27	+0.8	14.0	15.0	+7.6	27	0	0	0	0	0	0	0	0	0	
Mawsynram . .	..	..	..	..	..	..	..	..	..	3478.1	..	361.4	10	26	..	..	..	..	26	..	..	..	..	..	..	..	..	..
Darjiling (Raj Bhawan)	18.8	-0.6	21.0	31	15.2	0	13.9	26	141.4	502.7	-171.9	58.7	3	24	+0.3	1.9	2.1	-0.8	27	0	0	3	30	0	0	0	0	0	
Kulimpong . .	24.2	0	25.6	9	17.8	-1.8	15.7	24	33.0	457.5	-47.4	50.8	11,15,	18	-3.5	6.1	4.6	-3.9	18	0	0	0	0	0	0	0	0	0	
Katmandu (Hydromet.) Mukteswar (Kumaon)	27.1	..	29.3	31	19.7	..	18.3	20	132.9	357.8	..	35.8	13	19	..	2.7	1.3	..	26	0	0	7	0	0	0	0	0	0	
Nainital . .	20.5	..	22.8	16,17	16.5	..	15.0	17	201.7	655.3	..	146.0	22	23	..	9.9	7.8	..	27	0	0	0	0	0	0	0	0	0	
Joshimath . .	23.9	..	26.1	19	16.7	..	14.4	15	23.8	225.4	..	44.0	3	19	..	6.2	4.0	..	26	0	0	0	10	0	0	0	0	0	
Badrinath . .	15.3	..	17.8	1	10.3	..	7.8	15,29	..	93.2	..	13.0	7	11	..	..	..	..	20	0	0	0	0	0	0	0	0	0
Lokpal . .	9.3	..	10.2	18	5.1	..	2.9	29	..	410.5	..	36.4	5	27	..	..	..	..	31	..	..	..	..	..	..	..	..	..
Jamuna Chetty . .	..	..	..	..	..	..	..	..	..	90.6	..	15.0	3	13	..	..	..	..	20	..	..	..	..	..	..	..	..	..
Mussoore . .	20.1	0	22.4	17	15.4	-0.1	13.4	31	385.5	1092.1	+337.7	159.4	22	24	+0.2	6.4	5.3	-0.5	25	0	0	11	18	0	0	0	0	0	
Kharsali . .	..	..	..	..	..	..	..	..	..	407.3	..	57.1	12	21	..	..	..	..	25	..	..	..	..	..	..	..	..	..
Rana . .	..	..	..	..	..	..	..	..	..	45.1	..	5.9	3	7	..	..	..	..	23	..	..	..	..	..	..	..	..	..
Simla . .	20.6	+0.4	24.3	17	15.5	+0.4	13.4	27	240.3	323.7	-104.3	62.8	20	15	-4.7	2.8	2.3	+0.8	20	0	0	6	0	0	0	0	0	0	
Dharampore . .	..	..	..	..	..	..	..	..	..	200.4	-118.6	36.0	22	12	-4.5	..	..	..	14	..	..	..	..	..	..	..	..	..
Keylang . .	..	..	..	..	..	..	..	..	..	44.0	+8.7	21.6	5	5	+1.2	..	..	..	7	..	..	..	..	..	..	..	..	..
Gondla . .	..	..	..	..	..	..	..	..	..	45.2	..	31.5	5	3	..	..	..	..	3	..	..	..	..	..	..	..	..	..
Kothi . .	..	..	..	..	..	..	..	..	..	216.3	..	26.2	21	19	..	..	..	..	21	..	..	..	..	..	..	..	..	..
Koksar . .	..	..	..	..	..	..	..	..	..	106.2	..	24.9	7	6	..	..	..									

TABLE II.—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—AUGUST, 1958 (SRAVANA 10—BHADRA 9, 1880 SAKA) 403

Division and station	Air temperature in °C									Rainfall in millimetres						No. of rainy days (2·5 mm. or more)		Wind speed, kms. per hour						Weather phenomena—No. of days with						
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall	Line squall		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
Sikkim																														
Thangu	.	..	..	..	..	..	..	..	..	147·5	..	15·2	7	20	..	..	..	..	..	27	..	..	..	..	..	..	..	..	..
Chungthang	.	..	..	..	..	..	..	..	..	992·6	..	81·5	24	29	..	..	..	..	..	30	..	..	..	..	..	..	..	..	..
Lachen*	.	..																												
Tibet																														
Yatung (Chumbi)	17·5 (a)	-0·7	21·6	5	6·2	+4·0	3·9	14	..	152·5	-2·7	21·6	4	19	+1·6	..	..	..	..	27	0	0	0	0	0	0	0	0	0
Lhasa	22·5	..	26·1	4	9·8	..	7·2	11	..	173·0	..	22·0	15,20	15	..	..	2·6	..	15	0	0	0	0	0	0	0	0	0	
Ceylon																														
Colombo	29·3	-0·5	31·4	11	25·4	+0·4	22·7	11	39·9	61·6	-32·2	20·6	5	5	-1·9	..	..	..	..	15	0	0	0	0	0	0	0	0	0
Trincomalee	31·6	-2·1	34·6	1	25·2	+0·2	22·9	6	40·5	164·1	+66·3	46·5	8	6	+1·2	..	..	..	..	11	0	0	0	0	0	0	0	0	0
Batticaloa	32·4	..	35·8	30	24·6	..	21·8	8	33·8	134·7	..	51·1	2	7	..	..	..	..	..	11	0	0	0	0	0	0	0	0	0
Hambantota	30·5	+0·1	33·3	23	24·8	+0·3	24·0	22	23·7	27·0	-14·4	9·9	22	5	+1·1	..	..	..	..	7	0	0	0	0	0	0	0	0	0
Mannar	30·6	..	31·9	7	26·1	..	24·6	4	2·0	8·6	..	5·8	3	1	..	..	..	..	..	3	0	0	0	0	0	0	0	0	0
Hydrometeorological Observatories																														
Damodar Catchment																														
Bokaro	31·7	..	35·1	25	25·3	..	22·8	12	122·5	262·9	..	57·1	15	13	..	9·8	7·3	..	23	0	0	13	0	0	0	0	0	0		
Hazaribagh	29·1	..	32·2	26	23·0	..	21·4	12	125·0	283·3	..	38·4	13	15	..	8·3	4·3	..	18	0	0	0	0	0	0	0	0	0		
Tilaiya	30·9	..	34·6	25	25·1	..	22·7	6	87·6	208·9	..	49·5	5	15	..	11·3	8·1	..	20	0	0	14	0	0	0	0	0	0		
Ramgarh	32·0	..	36·4	31	24·8	..	22·6	12	110·6	265·3	..	96·8	1	17	..	4·0	2·6	..	19	0	0	0	0	0	0	0	0	0		
Panchet Hills	32·5	..	34·4	27	26·1	..	21·1	5	70·4	244·9	..	57·4	5	12	..	11·8	9·6	..	18	0	0	15	0	0	0	0	0	0		
Durgapur	32·4	..	34·0	28	25·5	..	23·3	1	101·7	186·8	..	49·0	5	13	..	16·7	14·0	..	19	0	0	0	0	0	0	0	0	0		
Asansol	..	..	..	..	..	..	..	..	..	230·6	..	51·9	5	15	..	..	..	..	19	..	..	..	..	..	..	..	..	..
Dhanwar	..	..	..	..	..	..	..	..	..	339·1	..	58·4	1	14	..	..	..	..	15	..	..	..	..	..	..	..	..	..
Dumri	..	..	..	..	..	..	..	..	..	220·6	..	35·1	12	16	..	..	..	..	18	..	..	..	..	..	..	..	..	..
Bishnugarh	..	..	..	..	..	..	..	..	..	220·9	..	48·0	2	13	..	..	..	..	18	..	..	..	..	..	..	..	..	..
Chandwa	..	..	..	..	..	..	..	..	..	302·1	..	41·9	8	16	..	..	..	..	17	..	..	..	..	..	..	..	..	..
Maithon	..	..	..	..	..	..	..	..	..	289·7	..	50·0	10	16	..	..	..	..	20	..	..	..	..	..	..	..	..	..
Konar	..	..	..	..	..	..	..	..	..	194·9	..	54·4	3	13	..	..	..	..	19	..	..	..	..	..	..	..	..	..
Mahanadi Catchment																														
Baramul	31·4	..	34·4	13	24·9	..	23·7	3,4	205·3	398·5	..	56·9	30	24	..	0·2	0·1	..	25	0	0	18	0	0	0	0	0	0		
Hirakud	32·3	..	34·6	27	25·5	..	23·2	17	93·3	373·2	..	77·0	7	14	..	5·9	4·6	..	21	0	0	14	0	0	0	0	1	0		
Khijrawan	29·8	..	32·5	24	24·1	..	22·7	2	137·0	348·8	..	91·4	30	14	..	8·5	5·8	..	23	0	0	7	0	0	0	0	0	0		
Sonepur	32·7	..	34·4	12	25·4	..	22·8	8	..	403·5	..	82·0	6	11	..	5·0	..	..	17	..	..	..	..	..	..	..	..	..
Ginabahar	30·6	..	33·9	26	23·4	..	21·7	10	..	378·5	..	86·4	9	20	..	..	..	..	21	..	..	..	..	..	..	..	..	..
Bhimkund	31·1	..	33·0	26	24·2	..	22·9	4,7	121·1	239·7	..	21·8	13	21	..	4·4	3·0	..	26	0	0	3	0	0	0	0	0	0		
Nerbada Catchment																														
Punasa	31·1	..	34·7	12	23·8	..	21·2	26	128·4	332·5	..	52·6	21	21	..	..	..	..	24	0	0	0	0	0	0	0	0	0	
Bagra Tawa	30·9	..	33·9	24	23·6	..	22·2	3	232·1	325·3	..	49·0	13	19	..	6·2	5·0	..	26	0	0	10	0	0	0	0	0	0		
Thikri	31·7	..	34·4	12,13	24·6	..	21·1	14	..	203·7	..	39·5	19	16	..	..	..	..	23	0	0	0	0	0	0	0	0	0	
Sabarmati Catchment																														
Jhadol	29·7	..	32·3	16,18 20	22·5	..	15·8	16	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sainwara (Surajgadh)	..	..	..	..	..	..	..	..	..	82·5	..	31·7	20	4	..	..	..	..	4	..	..	..	..	..	..	..	..	..	..
Bikrani	..	..	..	..	..	..	..	..	..	74·6	..	30·7	21	5	..	..	..	..	8	..	..	..	..	..	..	..	..	..	..
Tarpal	..	..	..	..	..	..	..	..	..	145·9	..	44·5	8	11	..	..	..	..	12	..	..	..	..	..	..	..	..	..	..
Kotra Cantonment	41·1	..	9·7	7	6	10
Dharoi	32·9	..	35·0	13,15	25·1	..	21·7	19	27·2	81·8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ganga Catchment																														
Mukhira	22·9	..	25·1	18	16·9	..	15·6	23,27	110·4	379·2	..	83·5	3	20	..	..	..	..	21	0	0	0	15	0	0	0	0	0	0
Tehri	31·8	..	35·0	31	23·0	..	20·8	27	58·2	233·4	..	62·5	3	11	..	..	..	..	16	0	0	2	0	0	0	0	0	0	0

(a) Mean of 30 days

(c) Mean or Total for 28 days

*Data not reliable

404 TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—AUGUST, 1958 (SRAVANA 10—BHADRA 9, 1880 SAKA)

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed, kms. per hour		Weather phenomena—No. of days with												
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.3 mm. or more)	Snow or sleet	Thunder heard	Fog	Dust-storm	Rain rest	Gale	Squall	Line squall			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
Hydrometeorological Observatories—(Contd.)																														
Gandak Catchment																														
Gorkha . .	26.7	..	28.9	30	21.0	..	20.0	21	117.0	394.9	..	50.8	12	23	..	..	..	..	26	..	..	..	..	..	..	..	..	..	..
Pokhara . .	28.7	..	31.4	31	21.3	..	19.8	25	180.4	1219.7	..	106.7	27	28	..	..	..	..	29	..	..	..	..	..	..	..	..	..	..
Nawakot . .	29.7	..	31.2	31	21.5	..	19.2	20	60.6	489.5	..	56.9	9	26	..	..	..	..	30	..	..	..	..	..	..	..	..	..	..
Jomsom . .	22.9	..	26.8	6	14.0	..	12.3	31	9.4	65.7	..	13.5	13	9	..	..	..	..	11	..	..	..	..	..	..	..	..	..	..
Timure . .	24.7	..	27.3	31	17.4	..	15.6	30	9.6	235.9	..	29.7	20	26	..	..	..	..	27	..	..	..	..	..	..	..	..	..	..
Gogra Catchment (Trans-Himalayan Region)																														
Dailekh . .	25.0	..	26.5	20	19.6	..	17.4	5	183.8	571.1	..	73.6	13	27	..	..	..	..	30	..	..	..	..	..	..	..	..	..	..
Gogra Catchment																														
Dandeldhura . .	22.0	..	24.6	16,17	16.9	..	15.4	15,28	288.6	574.5	..	73.9	22	20	..	..	..	..	25	..	..	..	..	..	..	..	..	..	..
Munsiyari . .	..	..	..	..	..	..	..	..	..	639.2	..	73.7	10	26	..	..	..	..	29	..	..	..	..	..	..	..	..	..	..
Sallyana . . (R)
Butwal . .	31.0	..	33.3	29	24.4	..	22.9	31	318.3	825.0	..	124.5	15	27	..	..	..	..	29	..	..	..	..	..	..	..	..	..	..
Bagmati Catchment																														
Katmandu* . .																														
Kosi Catchment																														
Chautara . .	25.1	..	27.9	31	18.9	..	16.8	20	176.3	497.5	..	98.3	29	28	..	..	..	..	30	..	..	..	..	..	..	..	..	..	..
Okhaldunga . .	23.6	..	26.9	31	17.1	..	16.1	20	114.3	408.5	..	73.7	16	19	..	1.9	1.3	..	23	0	0	0	13	0	0	0	0	0	0	
Barahkshetra . .	29.5	..	33.3	31	23.9	..	22.5	16	428.5	934.5	..	149.1	21	26	..	5.7	3.4	..	30	0	0	6	0	0	0	0	0	0	0	
Angbung . .	27.1	..	30.2	2	20.0	..	17.6	24	..	312.9	..	47.2	2	22	..	..	..	..	26	..	..	..	..	..	..	..	..	..	..
Taplejung . .	23.4	..	25.8	4,29	..	..	..	..	126.9	504.0	..	58.7	5	27	..	..	..	..	30	0	0	0	20	0	0	0	0	0	0
Taplethok . .	28.2	..	32.4	28	18.0	..	17.1	21	..	616.6	..	46.0	16	31	..	..	..	..	31	..	..	..	..	..	..	..	..	..	..
Wallungchung Gola (d) 14.9	..	17.7	2,31	9.6	..	7.8	27	..	469.6	..	37.1	24	29	..	..	..	..	31	..	..	..	..	..	..	..	..	..	..
Bhojpur . .	23.1	..	26.3	31	17.9	..	17.1	21,22	79.3	285.4	..	46.5	3	19	..	..	..	..	21	..	..	..	..	..	..	..	..	..	..
Chainpur . .	26.1	..	29.4	30	19.5	..	18.4	20	79.4	340.1	..	55.9	3	19	..	..	..	..	24	..	..	..	..	..	..	..	..	..	..
Tista Catchment																														
Gangtok . .	21.1	..	24.9	31	16.2	..	15.1	20	214.4	768.3	..	59.3	31	29	..	4.1	3.0	..	31	0	0	2	27	0	0	0	0	0	0	
Geyzing . .	24.6	..	28.4	8	18.4	..	17.2	26	115.4	591.2	..	74.7	15	26	..	..	..	..	27	..	..	..	..	..	..	..	..	..	..

*Data included under "Hill stations"

(a) Mean of 30 days.

(c) Mean of 28 days.

(d) Mean of 27 days.

(b) Mean of 29 days.

(R) Register not received.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—AUGUST, 1958 (SRAVANA 10—BHADRA 9, 1880 SAKA)

405

Division and station	Hour of observation I.S.T	Height of barometer cistern above mean sea level in metres*	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs.	Relative humidity %	Cloud amount (Oktas)	Wind speed (kms. p. h.)	No. of observations															
			At mean sea level or height in g.p.m. of nearest standard isobaric level			At station level							Departure from normal			Cloud amount (Oktas)			Wind direction									
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bay Islands																												
Maya Bandar .	0830	23	1008.1	1005.4	..	27.4	25.4	24.4	31.0	85	..	5.6	..	6.3	0	1	21	0	0	3	1	0	16	1	0	9	1	
	1730	"	1006.1	1003.5	..	27.3	25.4	24.4	30.8	85	..	6.3	..	3.8	0	0	20	0	0	2	2	0	16	0	0	11	0	
Long Island .	0830	33	1008.1	1004.3	..	27.8	25.8	24.9	32.8	85	..	6.7	..	1.5	0	0	15	0	2	0	6	0	7	0	0	16	0	
	1730	"	1006.0	1002.2	..	27.1	25.4	24.7	31.2	87	..	7.0	..	1.0	0	0	12	0	2	0	4	0	6	0	0	19	0	
Port Blair .	0530	79	1007.1	998.1	..	25.0	24.2	23.8	29.5	94	..	7.0	..	10.0	0	3	23	0	0	0	1	1	2	16	5	1	5	0
	0830	"	1008.5	999.7	+0.2	27.4	25.3	24.4	30.3	84	0	6.7	+0.1	12.0	0	2	28	0	0	0	1	2	6	15	6	0	1	0
	1130	"	1007.5	998.6	..	27.9	25.3	24.2	30.5	81	..	6.8	..	15.5	0	7	22	0	0	0	0	4	5	14	5	0	2	1
	1730	"	1006.4	997.5	..	26.3	24.9	24.2	30.4	88	..	6.5	..	11.9	0	3	24	0	0	0	0	1	4	15	7	0	4	0
	2330	"	1008.0	999.0	..	25.5	24.3	23.9	29.6	92	..	5.8	..	11.6	0	4	27	0	0	0	0	4	4	18	3	1	0	1
Car Nicobar .	0830	10	1009.0	1007.8	..	27.5	25.5	24.4	31.1	83	..	6.8	..	4.8	0	0	25	0	0	0	2	0	14	6	1	6	2	
	1730	"	1007.2	1006.0	..	26.7	24.8	24.0	30.6	87	..	6.5	..	2.8	0	0	19	0	0	0	0	0	0	14	4	0	12	1
Nancowry .	0830	26	1009.6	1006.7	..	27.3	25.0	23.9	29.9	83	..	6.7	..	14.9	0	5	26	0	0	0	0	0	1	25	4	1	0	0
	1730	"	1007.4	1004.5	..	26.8	24.7	23.7	29.3	84	..	6.7	..	11.7	0	1	30	0	0	0	0	0	2	27	1	1	0	0
Kondul .	0830	8	1009.9	1009.0	..	27.1	25.3	24.4	31.2	89	..	6.5	..	7.2	0	0	25	0	2	12	11	0	0	0	0	6	0	
	1730	"	1007.7	1006.8	..	26.6	25.1	24.4	31.0	88	..	6.2	..	6.3	0	0	18	0	0	7	11	0	0	0	0	13	0	
Assam (Including Manipur, Tripura)																												
Pasighat .	0830	157	1005.8	988.4	..	24.7	23.9	23.5	29.0	94	..	7.5	..	1.5	0	0	14	1	0	3	2	2	0	0	6	17	0	
	1730	"	1002.1	984.6	..	26.5	25.0	24.3	30.5	88	..	6.5	..	1.1	0	0	8	0	0	1	0	0	0	6	23	0		
Digboi .	0830	"	"	"	..	26.2	24.7	24.4	29.9	88	..	7.5	..	0	0	31	3	5	3	1	12	5	2	0	0	0		
	1730	"	"	"	..	28.3	25.7	24.6	30.8	80	..	7.2	..	0	0	31	1	6	5	3	9	3	3	1	0	0		
Dibrugarh .	0830	106	1005.3	993.3	+1.1	25.4	24.7	24.4	30.5	95	+8	7.8	+1.5	2.8	0	0	23	3	2	6	4	6	2	0	0	8	0	
	1730	"	1001.6	989.8	..	26.9	25.2	24.4	30.5	87	..	6.0	..	2.2	0	0	16	3	4	6	0	0	3	0	0	15	0	
Dibrugarh (Mohanbari Aerodrome)	0230	111	1003.5	990.9	..	24.7	24.3	24.1	30.1	97	..	7.5	..	3.1	0	2	12	0	8	1	2	2	1	0	0	17	0	
	0530	"	1004.3	991.7	..	24.5	24.1	23.9	29.0	97	..	7.9	..	3.6	0	0	18	1	6	4	6	0	1	0	0	13	0	
	0830	"	1005.5	993.3	..	25.8	24.8	24.4	30.0	93	..	7.9	..	5.7	0	7	15	0	8	2	5	3	2	0	1	9	0	
	1130	"	1004.2	991.7	..	27.7	25.7	24.7	29.9	85	..	7.5	..	6.0	0	6	18	2	9	3	1	2	5	1	1	7	0	
	1730	"	1001.9	989.3	..	27.6	25.4	24.5	30.8	84	..	6.4	..	4.6	0	0	19	2	7	7	0	0	2	1	0	12	0	
	2330	"	1004.0	991.5	..	25.1	24.5	24.1	29.2	95	..	7.0	..	2.8	0	0	11	2	6	0	2	0	0	1	0	20	0	
North Lakhimpur .	0830	102	1005.0	993.5	..	25.6	24.9	24.5	31.0	94	..	7.7	..	5.9	0	0	29	1	6	5	4	4	8	1	0	2	0	
	1130	"	1003.8	992.4	..	27.4	25.6	24.8	30.8	86	..	7.0	..	12.8	0	5	26	0	5	6	3	4	8	3	2	0	0	
	1730	"	1001.0	989.6	..	27.9	26.1	25.4	32.4	86	..	6.3	..	5.0	0	1	23	5	2	6	1	3	7	0	0	7	0	
Sibsagar .	0830	97	1005.7	994.9	+1.8	26.9	25.9	25.0	32.5	90	+4	7.7	+0.7	3.7	0	0	25	3	6	2	5	6	2	0	1	6	0	
	1730	"	1002.0	991.2	..	29.1	26.7	25.8	33.2	82	..	6.5	..	4.7	0	0	27	9	5	1	5	4	1	0	2	4	0	
Jorhat .	0530	90	1003.6	993.4	..	25.2	24.8	24.7	30.5	97	..	7.5	..	3.3	0	0	14	1	1	1	0	5	5	0	1	17	0	
	0830	"	1004.9	994.8	..	27.1	25.5	24.8	31.6	88	..	7.4	..	6.8	0	1	22	3	2	0	1	8	7	0	2	8	0	
	1130	"	1003.5	993.5	..	29.3	26.2	24.9	31.6	78	..	6.6	..	9.5	0	2	24	5	2	1	1	6	6	3	2	5	0	
	1730	"	1000.8	990.9	..	28.4	26.3	25.4	32.5	82	..	6.1	..	7.1	0	0	23	7	4	1	0	2	3	3	3	8	0	
Golaghat .	0830	"	"	"	..	27.3	25.6	24.9	31.2	86	..	7.5	..	0	0	5	0	0	0	4	0	0	0	0	1	26	0	
	*1730	"	"	"	..	29.2	26.5	25.3	32.2	79	..	7.0	..	0	0	4	0	0	0	4	0	0	0	0	0	26	0	
Gohpur .	0830	"	"	"	..	26.6	25.7	25.2	32.5	92	..	6.0	..	0	0	31	1	9	3	3	1	1	7	3	4	0	0	
	1730	"	"	"	..	29.3	27.7	26.7	36.0	80	..	5.4	..	0	0	0	30	1	6	3	1	1	10	1	7	1	0	
Tezpur .	0830	79	1005.3	996.5	+1.1	27.0	25.7	25.3	31.7	90	+3	6.9	+0.4	1.6	0	0	16	0	4	3	0	1	8	0	0	15	0	
	1730	"	1001.3	992.5	..	28.7	26.3	25.5	32.4</td																			

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—AUGUST, 1958 (SRAVANA 10—BHADRA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas)		Wind speed (kms. p. h.)	No. of observations																									
			At mean sea level or height in g.p.m. of nearest standard isobaric level			At station level						Mean amount			Departure from normal		Mean wind speed, kms. per hour		Wind direction		N		NE		E		SE		S		SW		W		NW		Calm		Variable	
			2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28											
Assam (Including Manipur, Tripura) <i>(+C.W.D.)</i>																																								
Gauhati	0830	55	1004.7	998.9	+1.8	27.8	25.9	25.1	31.7	85	+2	7.1	+1.0	3.0	0	0	31	0	16	7	0	0	2	1	5	0	0	0	0	0	0	0	0	0						
	1730	"	1001.3	995.0	..	28.9	26.2	25.1	31.6	80	..	7.1	..	3.0	0	0	31	0	2	3	0	0	4	1	3	1	2	13	0	0	0	0	0							
Gauhati (Bhoriya Aerodrome)	0230	54	1002.9	996.8	..	26.2	25.4	25.3	31.6	94	..	6.5	..	1.8	0	0	13	0	3	0	1	4	3	0	5	3	1	2	13	0	0	0	0	0						
	0530	"	1003.3	997.1	..	25.9	25.3	25.0	32.0	95	..	7.4	..	2.7	0	0	18	0	4	3	0	5	3	1	2	13	0	0	0	0	0	0								
	0830	"	1004.8	998.7	..	28.2	26.0	25.0	32.0	83	..	7.3	..	4.0	0	0	26	2	3	1	2	3	4	6	5	5	5	0	0	0	0	0	0							
	1130	"	1004.1	997.6	..	29.5	26.7	25.5	32.6	79	..	6.9	..	7.3	0	0	28	7	8	2	0	0	1	3	7	3	0	0	0	0	0	0								
	1730	"	1001.4	995.3	..	28.6	26.3	25.3	31.9	82	..	6.7	..	3.7	0	0	26	2	3	1	2	3	4	6	5	5	0	0	0	0	0	0								
	2330	"	1003.7	997.5	..	26.5	25.7	25.4	32.6	93	..	6.3	..	2.1	0	0	12	0	3	0	1	3	1	1	3	19	0	0	0	0	0	0								
Rangiya	0830	..	..	..	..	28.0	25.8	24.7	30.9	84	..	..	..	..	..	..	..	..	2	3	6	1	2	3	8	6	0	0	0	0	0	0		
	1730	..	..	..	..	29.4	26.7	25.2	32.7	80	..	..	..	..	..	..	..	..	1	1	6	1	1	5	13	3	0	0	0	0	0	0		
Goalpara	0830	38	1002.7	998.4	..	27.1	25.8	25.1	32.2	89	..	6.6	..	2.6	0	0	23	2	2	3	1	2	4	6	3	8	0	0	0	0	0	0								
	1730	"	1000.4	996.2	..	28.8	26.7	25.9	23.2	85	..	6.5	..	3.0	0	0	29	1	1	3	2	4	4	10	4	2	0	0	0	0	0	0								
Dhubri	0330	35	1005.7	1001.7	+2.3	27.1	25.9	25.3	32.2	91	+6	4.7	-1.1	1.8	0	0	16	0	1	2	2	8	3	0	0	15	0	0	0	0	0	0								
	1730	"	1002.5	998.5	..	27.7	26.4	25.8	33.2	88	..	2.4	..	2.4	0	0	10	0	0	0	0	2	8	0	0	21	0	0	0	0	0	0								
Dhubri (Rongi Aerodrome)	0530	..	..	..	..	25.6	25.2	25.0	31.6	97	..	7.6	..	3.9	0	0	19	1	4	0	2	6	5	1	0	12	0	0	0	0	0	0				
	0830	..	..	..	..	27.2	25.9	25.3	31.9	89	..	7.6	..	7.5	0	0	31	1	6	1	9	6	7	1	0	0	0	2	0	0	0	0	0			
	1130	..	..	..	..	28.6	26.4	25.4	32.9	84	..	7.2	..	8.0	0	0	29	2	2	2	8	3	12	0	0	0	2	0	0	0	0	0	0			
	1730	..	..	..	..	28.0	26.3	25.7	32.5	87	..	7.0	..	3.4	0	0	20	0	1	1	2	5	9	1	1	11	0	0	0	0	0	0				
Tura	0830	370	1006.6	965.4	..	25.1	24.1	23.5	29.3	92	..	7.7	..	3.6	0	0	25	0	2	5	6	6	3	3	0	6	0	0	0	0	0	0	0	0						
	1730	"	1002.7	961.9	..	27.0	25.1	24.2	30.2	85	..	7.3	..	4.3	0	0	27	0	0	0	0	8	6	8	3	2	4	0	0	0	0	0	0	0						
Ajrapata	0230	16	1003.4	1001.6	..	25.5	25.0	24.7	31.2	95	..	6.4	..	8.5	0	4	24	2	0	1	21	4	0	0	0	3	0	0	0	0	0	0	0							
	0530	"	1003.7	1001.9	..	25.3	24.8	24.6	31.0	96	..	7.3	..	7.5	0	0	30	0	3	2	20	5	0	0	0	1	0	0	1	0	0	0	0	0						
	0830	"	1005.0	1003.2	..	28.1	26.2	25.3	33.1	85	..	7.4	..	11.7	0	7	23	0	1	2	16	10	1	0	0	0	1	0	0	1	0	0	0	0						
	1130	"	1004.2	1002.5	..	29.7	27.1	26.0	34.1	81	..	7.4	..	12.8	0	6	25	1	0	0	11	15	2	0	0	0	0	0	0	0	0	0	0	0						
	1730	..	..	..	..	29.0	26.1	25.2	31.7	84	..	6.8	..	9.0	0	1	28	1	0	0	0	20	4	0	0	0	0	0	0	0	0	0	0	0		
	2330	"	1004.2	1002.4	..	25.9	25.3	25.1	31.3	95	..	5.8	..	7.7	0	3	21	0	0	0	0	20	4	0	0	0	0	0	0	0	0	0	0	0						
Kailashnagar (C.W.O.)	0530	29	1004.7	1001.4	..	25.4	24.8	24.6	31.3	95	..	7.4	..	6.1	0	2	17	0	1	0	1	17	0	0	0	0	12	0	0	0	0	0	0							
	0830	"	1005.7	1002.5	..	27.8	25.9	25.2	32.0	85	..	7.0	..	12.1	0	3	26	1	0	0	4	21	3	0	0	2	0	0	1	0	0	0	0	0	0					
	1130	"	1004.5	1001.3	..	30.4	26.9	25.6	32.3	76	..	6.7	..	8.9	0	2	28	0	1	0	0	28	1	0	0	0	1	0	0	0	0	0	0	0						
	1730	"	1002.2	999.0	..	28.1	26.4	25.6	33.3	87	..	6.5	..	8.2	0	2	20	1	0	0	2	17	2	0	0	9	0	0	0	0	0	0	0	0						
Silchar (Kamakhya Aerodrome)	0830	29	1006.3	1003.0	+1.8	27.8	25.8	25.0	31.7	85	-1	7.0	+0.6	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
	1730	"	1002.6	999.3	..	28.7	26.2	25.7	32.1	82	..	6.5	..	0.6	0	0	6	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0					
	0530	97	1003.8	992.9	..	24.4	24.1	24.0	29.4	98	..	7.2	..	4.9	0	0	28	0	3	16	3	1	4	0	1	3	0	0	0	0	0	0	0	0	0	0				
	0830	"	1004.8	994.0	..	26.9	25.4	24.7	31.5	88	..	7.0	..	4.5	0	0	26	0	5	15	2	1	1	2	2	7	7	2	0	0	0	0	0	0	0	0	0	0		
	1130	"	1003.6	992.8	..	29.3</td																																		

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—AUGUST, 1958 (SAVANA 10—BHADRA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs.	Relative humidity %	Cloud amount (Oktas)	Wind speed, knts. per hour	No. of observations															
			At station level			Departure from normal							Wind direction															
			American sea level or height in G.P.M. of nearest standard isobaric level	At station	Dew point	Dry bulb	Wet bulb	Departure from normal					Mean amount	Departure from normal	Mean wind speed, 6s. or more	20 to 61	1 to 19	N	NE	E	SE	S	SW	W	NW	Calm	Variable	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
Gangetic West Bengal	0230	6	1002.2	1001.5	..	26.9	26.2	25.9	33.1	95	..	5.0	..	5.1	0	0	24	0	1	3	6	9	5	0	0	7	0	
	0530	"	1002.4	1001.7	..	26.5	26.0	26.0	33.1	95	..	7.0	..	4.7	0	0	25	0	4	3	7	8	3	0	0	6	0	
	0830	"	1003.8	1003.1	..	29.1	26.8	25.9	33.6	83	..	7.1	..	9.6	0	1	30	0	1	5	5	13	7	0	0	0	0	0
	1130	"	1003.2	1002.5	..	30.7	27.3	26.1	33.8	75	..	6.9	..	11.5	.0	1	30	1	1	5	7	13	4	0	0	0	0	0
	1730	"	1000.7	1000.0	..	29.2	26.6	25.6	33.1	81	..	6.7	..	7.5	0	0	30	0	0	3	6	13	7	1	0	1	0	0
	2330	"	1003.2	1002.5	..	27.4	26.4	26.0	33.4	92	..	5.1	..	6.8	0	0	27	0	0	4	8	12	3	0	0	4	0	0
Calcutta	0830	6	1003.6	1002.9	+1.7	29.0	26.5	25.4	32.6	81	—4	6.8	+0.1	8.6	0	0	31	0	0	7	10	7	6	1	0	0	0	
	1130	"	1003.1	1002.4	..	30.9	27.1	25.5	32.7	74	..	6.4	..	9.8	0	1	30	0	0	6	6	14	5	0	0	0	0	0
	1730	"	1000.6	999.9	..	29.3	26.5	25.2	32.4	80	..	6.4	..	7.5	0	0	28	0	0	4	11	9	5	1	0	3	0	0
	0530	7	1002.4	1001.6	..	26.3	25.9	25.7	33.1	97	..	6.2	..	5.4	0	0	18	0	0	7	2	3	6	0	0	13	0	
	0830	"	1003.8	1003.1	..	28.9	27.1	26.3	34.3	86	..	6.8	..	11.3	0	3	27	0	0	5	11	6	6	2	0	1	0	
	1130	"	1003.3	1002.6	..	30.5	27.6	26.4	34.5	80	..	7.0	..	12.0	0	0	31	0	1	3	7	8	10	1	1	0	0	
Barrackpore	1730	"	1000.6	999.9	..	28.9	26.9	26.2	33.8	86	..	6.5	..	8.6	0	0	27	0	0	3	6	8	10	0	0	4	0	
	2330	"	1003.3	1002.5	..	27.1	26.4	26.1	33.9	94	..	4.7	..	6.0	0	0	20	0	0	3	7	5	5	0	0	11	0	
	0830	3	1002.9	1002.6	+1.3	28.9	26.6	25.7	33.3	83	—1	6.2	—0.6	18.0	0	0	9	22	1	1	2	7	11	3	1	0	0	
	1730	"	1000.5	1000.2	..	29.3	26.5	25.5	32.5	79	..	5.7	..	21.7	0	0	17	14	0	1	0	9	12	9	0	0	0	
	0530	10	1001.6	1000.5	..	28.4	26.5	25.6	33.1	84	..	5.9	..	..	0	8	22	0	0	2	5	5	3	10	2	0	1	0
	0830	"	1003.2	1002.1	+1.1	29.1	26.7	25.8	33.0	82	—1	5.9	+0.1	..	0	8	22	0	0	5	5	3	11	9	2	0	1	0
Saugor Island	1130	"	1003.0	1001.9	..	29.5	26.8	25.7	32.7	80	..	5.9	..	..	0	8	22	0	1	3	4	11	9	2	0	1	0	
	1730	"	1000.3	999.2	..	29.5	26.8	25.7	32.7	80	..	6.0	..	..	0	9	22	0	0	6	17	3	0	0	0	0	0	
	2330	"	1002.6	1001.5	..	28.7	26.6	25.8	33.0	84	..	5.4	..	..	0	14	17	0	0	0	6	12	12	1	0	0	0	0
	0830	11	1003.2	1002.0	..	29.3	27.1	25.7	34.0	81	..	6.3	..	6.9	0	1	26	0	1	1	8	8	6	3	0	4	9	0
	1730	"	1001.1	999.8	..	29.1	26.9	25.8	33.7	82	..	5.6	..	7.7	0	0	30	0	0	12	9	7	1	1	1	0	0	
	0830	45	1003.3	998.2	+1.6	28.7	26.4	25.4	32.8	82	—1	5.3	—0.4	4.1	0	0	28	1	1	5	1	9	11	6	0	3	0	
Midnapore	1730	"	1000.3	995.2	..	29.3	26.4	25.2	32.5	78	..	3.7	..	3.7	0	0	26	0	0	3	4	6	10	2	1	5	0	
	0830	255	1003.6	975.4	..	27.7	25.2	23.9	30.0	81	..	6.1	..	5.6	0	0	30	1	3	3	7	13	2	0	1	1	0	
	1730	"	999.9	971.9	..	29.0	25.6	24.1	29.9	74	..	7.0	..	4.6	0	0	26	0	0	2	13	8	2	0	1	5	0	
	0830	32	1003.9	1000.3	+2.1	28.7	26.5	25.3	32.8	82	—2	4.7	—1.9	1.9	0	0	13	2	0	3	0	6	2	0	0	13	0	
	1730	"	1000.4	996.7	..	29.8	26.4	25.0	31.1	77	..	5.9	..	3.6	0	0	20	6	0	4	0	7	2	0	1	11	9	
	0830	15	1003.9	1002.3	+1.6	29.1	27.1	26.3	34.4	85	+1	4.9	—1.3	3.3	0	0	30	1	0	6	3	13	1	1	6	0	1	9
Krishnagar	1730	"	1000.7	999.1	..	29.8	27.1	26.3	33.5	81	..	4.5	..	2.4	0	0	24	0	0	3	1	20	0	0	0	4	7	0
	0230	126	1001.5	987.4	..	26.3	25.8	25.7	32.8	97	..	5.9	..	4.7	0	0	23	0	0	4	10	8	1	0	0	6	0	0
	0530	"	1002.0	987.8	..	26.0	25.6	25.5	32.4	97	..	6.9	..	5.5	0	0	27	0	1	5	12	9	0	0	4	0	0	0
	0830	"	1003.1	989.0	+1.8	28.0	26.4	25.7	33.1	87	+2	7.1	0	7.1	0	0	26	0	1	5	15	4	1	0	0	5	0	0
	1130	"	1002.5	988.5	..	30.1	27.2	25.9	33.9	79	..	7.0	..	6.1	0	0	25	1	2	4	11	3	1	0	6	0	0	0
	1730	"	999.8	985.8	..	29.2	26.8	25.8	33.2	83	..	7.1	..	7.0	0	0	25	0	0	6	8	11	6	0	0	6	0	0
Suri	2330	"	1002.7	988.5	..	26.7	26.1	25.9	33.4	95	..	5.9	..	10.7	0	0	31	0	2	5	9	12	2	1	0	0	0	0
	0830	77	1003.6	995.0	..	28.4	26.4	25.5	32.7	84	..	6.4	..	10.7	0	0	31	0	2	5	9	12	2	1	0	1	0	0
	1730	"	1000.7	992.1	..	39.4	26.4	25.2	31.9	79	..	6.8	..	9.5	0	1	29	0	1	6	13	8	1	1	0	1	0	0
	0830	19	1003.5	1001.3	+1.4	29.6	26.8	26.0	33.8	86	+1	6.8	+0.2	3.9	0	0	27	0	0	5	1	19	1	1	0	4	0	0
	1730	"	1000.0	998.0	..	29.7	27.0	26.1	33.5	80</td																		

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—AUGUST, 1958 (SRAVANA 10—BHADRA 9, 1880 SAKA)

Division and station	Hour of observation IST.	Height of barometer cistern above mean sea level in metres.	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs.			Cloud amount (Oktas)			No. of observations															
			At mean sea level or height in g.p.m. of nearest standard isobaric level			At station level			Departure from normal			Relative humidity %			Departure from normal			Mean amount			Wind speed (kms. p. h.)			Wind direction						
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	Calm	Variable
Orissa—Contd.																														
Gopalpur	0530	17	1002.0	1000.1	..	26.8	26.2	26.0	33.4	95	..	5.7	..	4.3	0	0	14	1	2	0	1	3	6	0	1	17	0			
	0830	"	1003.4	1001.5	+1.0	29.1	27.2	26.4	34.7	86	+5	6.5	+1.5	5.0	0	2	18	2	0	3	0	6	6	0	3	11	0			
	1130	"	1003.0	1001.1	..	30.6	28.2	27.3	36.2	83	..	6.4	..	9.0	0	2	26	2	1	3	1	11	5	1	4	3	0			
	1730	"	1000.6	998.7	..	29.0	27.7	27.1	36.0	90	..	6.2	..	11.3	0	6	20	0	1	1	4	11	7	0	2	5	0			
	2330	"	1003.0	1001.1	..	28.0	26.9	26.5	34.6	92	..	5.4	..	8.4	0	4	22	0	0	2	2	7	12	2	1	5	0			
	0830	913	1460.6	905.6	..	22.3	20.9	20.2	23.8	88	..	5.3	..	0	0	31	0	1	0	1	2	2	4	13	3	6	0	0		
Koraput	0830	913	1460.6	905.6	..	23.5	21.4	20.3	24.3	83	..	6.7	..	..	0	0	31	1	0	1	4	0	10	7	8	0	0	
	1730	"	1442.4	903.3	..	29.3	25.5	24.0	29.4	74	..	4.5	..	3.0	0	0	29	2	2	0	5	11	8	0	1	2	0			
Titlagarh	0830	211	1003.0	979.6	..	27.1	24.8	23.7	29.7	82	..	5.1	..	2.7	0	0	26	1	1	0	5	11	7	1	0	5	0			
	1730	"	999.3	975.7	..	29.3	25.5	24.0	29.4	74	..	4.5	..	3.0	0	0	29	2	2	0	5	11	8	0	1	2	0			
Belangir	0830	190	1002.7	981.5	..	27.2	25.0	24.0	29.9	84	..	6.4	..	6.6	0	0	30	3	4	5	4	6	7	0	1	1	0			
	1730	"	999.6	978.6	..	28.8	25.6	24.0	29.9	77	..	7.1	..	6.9	0	0	31	6	3	4	5	5	5	0	3	0	0			
Angul	0830	139	1003.4	987.7	+1.3	27.2	25.3	24.4	30.6	86	+5	7.4	+1.4	3.1	0	0	23	6	6	4	0	1	1	3	2	8	0	0		
	1730	"	1000.0	984.6	..	28.4	25.8	24.6	31.5	82	..	7.4	..	4.8	0	0	31	1	8	3	7	6	3	1	2	0	0			
Keonjhar	0830	463	1000.3	949.5	..	26.0	23.8	22.8	28.2	83	..	6.1	..	6.7	0	0	30	3	2	4	7	3	6	3	2	1	0			
	1730	"	997.8	947.3	..	26.6	24.2	23.3	27.1	82	..	7.3	..	5.2	0	0	30	0	1	3	10	6	5	5	0	1	0			
Sambalpur	0830	148	1003.1	986.6	+1.1	28.0	25.7	24.8	31.3	83	-2	6.3	-0.3	4.1	0	0	28	2	1	6	4	8	6	1	0	3	0			
	1730	"	999.5	983.2	..	29.1	26.1	25.0	31.2	79	..	6.5	..	2.4	0	0	23	0	3	1	5	8	3	1	2	8	0			
Jharsuguda	0230	230	1001.4	975.6	..	25.5	24.8	24.5	30.7	93	..	5.9	..	2.4	0	1	10	1	2	1	2	4	0	0	1	20	0			
	0530	"	1001.6	975.8	..	25.3	24.7	24.6	30.8	95	..	6.5	..	2.9	0	0	14	0	4	0	2	5	1	1	0	10	0			
	0830	"	1003.0	977.3	..	27.2	25.3	24.3	30.6	85	..	7.0	..	4.4	0	0	21	0	6	5	1	7	1	1	2	7	0			
	1130	"	1002.2	976.8	..	29.6	26.0	24.5	30.7	75	..	6.9	..	5.5	0	0	24	0	6	2	0	10	3	1	2	7	0			
	1730	"	999.3	973.9	..	28.8	26.0	24.7	31.4	80	..	7.2	..	3.6	0	0	17	0	5	3	1	5	2	0	1	14	0			
	2330	"	1002.3	976.5	..	26.1	25.2	24.8	31.2	93	..	6.0	..	3.7	0	0	19	0	2	1	7	7	1	0	1	12	0			
Chota Nagpur																														
Jamshedpur	0830	129	1002.9	988.6	+1.4	28.3	26.0	24.9	31.7	82	0	6.5	-0.4	7.1	0	1	26	0	0	10	3	0	4	8	2	4	0			
	1730	"	999.6	985.3	..	29.7	26.3	24.8	31.4	77	..	6.7	..	4.9	0	0	29	0	0	11	10	1	2	4	1	2	0			
Jaunghpur (P.B.O.)	0530	145	1001.7	985.4	..	26.3	25.2	24.7	31.1	91	..	7.4	..	3.3	0	0	17	0	5	2	4	3	2	1	0	14	0			
	0830	"	1002.9	986.7	..	28.4	25.8	24.6	31.1	80	..	6.9	..	5.5	0	0	29	0	4	2	4	2	8	8	1	2	0			
	1130	"	1002.1	986.1	..	30.7	26.4	24.6	30.9	70	..	6.9	..	6.6	0	0	29	0	3	4	4	5	9	4	0	2	0			
	1730	"	999.5	983.5	..	29.8	26.0	24.4	30.6	73	..	7.2	..	6.5	0	0	30	0	5	8	8	2	4	3	0	1	0			
	2330	"	1002.4	986.2	..	27.4	25.8	25.2	31.9	88	..	6.2	..	4.8	0	0	24	0	2	9	6	1	1	4	1	7	0			
	0830	226	1002.8	977.7	+1.7	28.1	25.6	24.6	30.9	81	-2	6.3	-0.1	2.0	0	0	20	0	5	0	1	0	14	0	0	11	0			
Ranchi	0830	1730	"	999.4	974.5	..	29.4	26.2	24.9	31.1	78	..	6.9	..	1.3	0	0	14	0	4	0	1	0	8	0	1	17	0		
	1730	"	"	990.8	928.7	..	25.8	23.4	22.9	27.8	84	..	6.6	..	0.1	0	0	10	0	1	6	0	3	0	0	30	0			
Ranchi (C.W.O.)	0530	655	1001.1	929.8	+0.2	25.8	23.7	22.8	27.6	84	-1	6.8	+0.1	1.1	0	0	10	0	1	0	0	0	0	0	0	30	0			
	0830	1730	"	990.8	928.7	..	25.8	23.4	22.9	27.8	84	..	6.6	..	0.1	0	0	1	0	0	0	0	0	0	0	0	30	0		
	1130	"	"	1001.8	931.2	..	26.9	24.1	23.0	27.9	80	..	7.3	..	8.3	0	0	26	0	4	3	1	10	6	1	1	5	0		
	1730	"	"	998.7	928.3	..	26.3	24.0	23.0	28.4	83	..	(j)	..	5.5	0	0	18	0	5	0	0	9	3	1	0	3	0		
	0830	221	1002.3	977.8	+1.2	28.4	25.7	24.6	30.7	80	-3	6.7	+1.7	3.3	0	0	28	1												

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—AUGUST, 1958 (SRAVANA 10—BHADRA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs.			Cloud amount (Okta)			No. of observations																	
			At mean sea level or height in g.p.m. of nearest standard isobaric level			At station level			Departure from normal			Relative humidity %			Departure from normal			Wind speed (kms. p.h.)			Wind direction											
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28		
Bihar—Contd.																																
Patna (Aerodrome)	0530	60	1000.7	993.9	..	26.7	26.1	25.8	33.5	95	..	6.4	..	4.5	0	0	13	0	0	9	0	2	1	1	0	18	0					
	0830	"	1002.1	995.3	..	28.5	26.8	26.0	34.0	87	..	6.5	..	11.5	0	3	25	0	2	7	9	6	4	0	0	3	0					
	1130	"	1001.7	995.1	..	30.1	27.2	26.0	34.1	79	..	6.6	..	11.6	0	1	29	1	0	7	7	6	6	3	0	1	0					
	1730	"	998.7	992.0	..	29.3	27.0	25.9	34.1	81	..	6.8	..	9.3	0	1	24	2	3	11	2	0	3	3	1	6	0					
	2330	52	1001.0	996.1	..	28.7	27.4	26.9	35.2	90	..	5.3	..	2.5	0	0	13	0	1	6	3	2	0	1	0	18	0					
Dehri	0830	107	1001.6	989.6	..	28.1	26.6	26.0	33.5	88	..	6.7	..	3.0	0	0	31	1	0	10	2	8	7	3	0	0	0					
Gaya	0230	116	1001.2	988.1	..	26.8	26.0	25.8	33.0	94	..	5.7	..	3.5	0	0	11	0	0	4	2	1	3	1	0	20	0					
	0530	"	1001.2	988.2	..	26.5	25.7	25.5	31.4	94	..	6.1	..	3.9	0	0	15	0	0	5	2	2	3	2	1	16	0					
	0830	"	1002.7	989.7	+1.6	28.6	26.5	25.7	33.0	84	+7	6.5	+1.3	6.2	0	2	19	0	0	3	4	2	8	4	0	10	0					
	1130	"	1002.3	989.4	..	30.5	26.9	25.7	32.8	74	..	6.4	..	9.7	0	2	25	3	0	8	4	1	4	5	2	4	0					
	1730	"	999.2	986.3	..	29.9	26.9	25.6	33.2	78	..	7.1	..	6.8	0	0	23	0	2	8	2	3	1	3	4	8	0					
	2330	"	1002.2	989.1	..	27.6	26.6	26.1	34.0	91	..	6.2	..	4.0	0	0	16	0	0	4	5	2	5	0	0	0	15	0				
Jamui	0830	82	1002.1	992.7	..	28.7	26.7	25.8	33.6	85	..	6.8	..	3.8	0	0	23	0	1	13	8	0	0	0	1	8	0					
Dumka	0830	149	1003.3	986.8	+1.7	28.8	26.1	25.1	31.7	84	+1	5.1	-0.7	3.9	0	0	28	0	3	6	11	3	3	2	0	0	3	0				
Bhagalpur	0530	49	1002.0	996.5	..	26.8	26.1	25.8	32.9	94	..	6.9	..	2.4	0	0	15	0	0	6	4	4	1	0	0	0	16	0				
	0830	"	1003.4	997.9	..	28.7	26.9	26.4	34.8	87	..	6.7	..	3.5	0	0	17	0	0	4	6	5	2	0	0	0	14	0				
	1130	"	1003.0	997.6	..	30.3	27.4	26.2	34.6	79	..	6.5	..	4.8	0	1	19	0	0	7	5	4	3	1	0	11	0					
	1730	"	1000.0	994.6	..	30.0	27.3	25.9	33.9	81	..	6.3	..	4.0	0	0	19	0	1	5	8	2	0	2	1	12	0					
Sabour	0830	27	1003.0	998.8	+1.1	28.6	27.1	26.4	34.9	88	+3	7.1	+0.5	9.3	0	1	30	0	0	4	12	7	7	0	1	0	0	17	0			
	1730	"	999.7	995.5	..	29.9	27.7	26.6	35.4	84	..	7.0	..	7.1	0	1	27	0	1	8	9	3	2	3	2	3	0					
Uttar Pradesh (East)																																
Gonda	0830	110	1002.0	989.8	..	27.7	26.4	25.8	33.3	90	+6	6.6	+0.4	1.9	0	0	16	0	0	14	0	0	0	1	1	15	0					
	1730	"	998.6	986.6	..	29.2	27.0	25.4	33.5	83	..	5.3	..	1.2	0	0	10	0	0	8	0	1	0	1	0	21	0					
Nautanwa	0830	99	1002.6	991.5	..	28.1	26.2	25.2	31.7	86	..	6.1	..	6.8	0	0	30	1	2	13	13	1	0	0	0	1	0					
Gorakhpur	0830	77	1001.6	992.8	+0.1	27.7	26.1	25.1	32.5	88	+3	6.9	+2.1	2.3	0	0	22	0	0	16	2	3	0	1	0	9	0					
	1730	"	998.8	990.0	..	28.8	27.0	26.0	34.0	86	..	6.4	..	1.5	0	0	16	1	0	6	3	1	0	5	0	15	0					
Gorakhpur (P.B.O.)	0230	78	1000.6	991.9	..	26.7	26.1	25.6	33.4	94	..	6.3	..	4.7	0	0	24	0	10	5	7	2	0	0	0	7	0					
	0530	"	1000.8	991.9	..	26.1	25.6	25.4	32.3	96	..	6.8	..	4.1	0	0	22	2	8	6	4	1	0	1	0	9	0					
	1130	"	1002.0	993.2	..	29.2	26.8	25.8	33.2	89	..	7.0	..	6.4	0	0	29	2	3	9	12	2	0	1	0	2	0					
	2330	"	1001.6	992.9	..	27.3	26.4	26.2	33.7	93	..	5.8	..	5.0	0	0	21	1	7	5	2	4	1	1	0	10	0					
Azamgarh	0830	78	1001.8	992.9	..	27.9	26.8	26.3	34.1	92	..	6.0	0	0	23	0	0	13	0	0	0	0	10	0	8	0				
	1730	"	998.6	990.3	..	28.9	27.7	26.7	35.6	88	..	6.5	..	..	0	0	12	1	0	11	0	0	0	0	0	19	0			
Ballia	0830	64	1002.3	995.2	..	28.2	26.7	26.1	32.5	88	..	5.8	..	3.8	0	0	25	1	7	3	1	4	2	0	6	0						
	1730	"	999.1	992.0	..	29.4	26.9	26.1	32.7	83	..	5.3	..	3.4	0	0	21	0	9	5	0	0	2	5	0	10	0					
Varanasi (Banaras)	0830	76	1001.7	993.8	+0.9	28.2	26.7	26.0	33.6	88	+4	5.2	-1.3	5.7	0	0	27	2	3	6	0	3	7	4	1	4	1					
	1730	"	998.3	989.8	..	29.6	27.2	26.0	34.3	81	..	5.6	..	4.6	0	0	23	4	4	6	0	2	3	4	0	8	0					
Varanasi (Banaras) (Babatpur Aerodrome)	0530	85	1001.5	991.8	..	26.3	25.9	25.6	32.3	93	..	6.2	..	5.5	0	0	26	0	6	6	0	4	8	2	0	5	0					
	0830	"	1002.7	993.2	..	28.1	26.6	26.0	33.6	89	..	6.9	..	10.3	0	1	30	0	4	7	4	2	10	4	0	0						
	1130	"	1002.6	993.1	..	30.2	27.2	26.1	33.1	79	..	6.9	..	10.8	0	3	28	1	4	8	0	1	9	6	2	0	0					
	1730	"	999.4	989.9	..	29.7	27.2	26.1	34.7	82	..	7.1	..	6.9	0	0	29	2	5	6	3	2	8	2	1	2	0					
	2330	"	1002.3	992.8	..	27.5	26.7	26.5	33.1	94	..	6.0	..	7.1	0	0	26	0	6	6	2	4	7	1	0	5	0					
Allahabad (Bamrauli)	0230	98	1000.2	989.2	..	27.1	26.0	25.6	32.6	92	..	6.2	..	5.5	0	0	23	0	1	9	1	5	6	1	0	8	0					
	0530	"	1000.4	989.3	..	26.8	25.9	25.6	32.6	93	..	6.9	..	4.8	0	0	25	0	3	8	1	4	7	1	1	6	0					
	0830	"	1001.7	990.8	+0.9	28.5	26.6	25.7	32.8	85	+1	6.8	0	7.4	0	0	27	0	4	7	1	3	7	5	0	4	0					
	1130	"	1001.7	990.8	..	30.5	27.1	25.7	33.4	77	..	6.6	..	4.6	0	1	27	1	4	6	2	3	4	7	1	3	0					
	1730	"	998.4	987.6	..	30.3	26.7	25.4	32.6	75	..	6.9	..	7.8</td																		

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—AUGUST, 1958 (SRAVANA 10—BHADRA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas)		Wind speed (kms.p.h.)	No. of observations															
			At mean sea level or height in G.P.M. of nearest standard isobatic level			At station level						Dry bulb		Wet bulb		Dew point		Mean amount		Departure from normal		Mean wind speed kms. per hour		Wind direction						
			2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
1																														
Uttar Pradesh (East) —Contd.																														
Lucknow	0830	111	1002.9	990.0	+1.7	27.7	26.0	25.1	32.5	87	+4	6.2	+0.3	3.5	0	0	23	0	0	12	0	7	0	4	0	8	0	0		
	1730	"	998.8	986.3	..	30.3	27.3	26.2	35.1	79	..	5.2	..	3.2	0	0	17	1	0	8	0	4	0	4	0	14	0	0		
Lucknow (Amausi Aerodrome)	0230	128	1000.1	985.9	..	26.6	26.0	25.1	33.4	94	..	5.1	..	4.7	0	0	21	0	2	7	5	1	3	3	0	10	0	0		
	0530	"	1000.2	986.0	..	26.4	25.7	25.4	32.3	95	..	6.3	..	6.0	0	0	25	0	4	9	5	0	5	2	0	6	0	0		
	0830	"	1001.4	987.5	+1.0	27.6	26.1	25.6	33.3	89	+8	6.3	+0.4	9.4	0	0	27	0	0	8	6	2	5	5	1	4	0	0		
	1130	"	1001.3	986.9	..	29.7	27.1	25.3	33.5	80	..	6.0	..	9.5	0	0	29	0	3	4	9	2	4	5	2	2	0	0		
	1730	"	998.2	984.0	..	29.7	26.9	25.8	33.9	80	..	6.5	..	6.9	0	1	23	1	1	4	3	3	3	5	4	7	0	0		
	2330	"	1000.9	986.7	..	27.3	26.2	26.1	32.9	92	..	5.1	..	5.9	0	0	19	0	2	6	4	3	4	0	0	12	0	0		
Hardoi	0830	142	1001.3	985.4	..	27.4	26.3	25.8	32.9	91	..	6.0	..	4.5	0	0	27	4	0	10	6	3	2	2	0	4	0	0		
	1730	"	997.9	982.2	..	29.7	27.2	26.3	33.5	82	..	5.0	..	3.9	0	0	24	3	1	4	7	1	1	3	4	7	0	0		
Lakhimpur Kheri	0830	147	1001.5	985.0	..	26.6	25.9	25.7	33.5	95	..	6.5	..	1.3	0	0	12	0	1	9	1	0	0	0	1	0	19	0		
Bahraich	0830	124	1001.7	987.9	+0.8	28.0	26.1	25.3	31.7	86	+4	7.2	+2.7	8.3	0	2	28	2	0	25	1	1	0	0	1	1	0	0		
	1730	"	998.9	985.3	..	29.4	26.8	25.8	32.7	81	..	6.5	..	4.1	0	0	24	4	1	13	1	1	2	2	0	7	0	0		
Uttar Pradesh (West)																														
Orai	0830	141	1003.3	987.7	..	28.9	26.8	26.1	33.2	85	..	6.1	..	5.4	0	0	31	0	1	0	2	0	8	3	17	0	0			
	1730	"	998.9	983.3	..	29.9	27.3	26.7	33.9	80	..	5.8	..	3.4	0	0	31	4	5	2	2	1	8	2	7	0	0			
Jhansi	0830	251	1001.8	974.2	+0.7	27.0	25.2	24.2	30.3	82	+2	5.4	+0.4	2.6	0	0	23	1	2	1	1	2	3	7	6	8	0	0		
	1730	"	998.3	970.8	..	30.5	25.7	23.7	29.4	68	..	5.7	..	2.3	0	0	21	5	1	3	2	0	2	3	5	10	0	0		
Agra	0830	169	1001.6	982.8	+0.8	28.0	26.2	25.3	31.7	86	+9	5.2	-0.4	1.5	0	0	12	0	0	0	3	2	7	0	0	19	0	0		
	1730	"	998.4	979.7	..	30.0	26.6	24.9	32.3	76	..	5.4	..	1.5	0	0	18	1	2	0	1	1	2	4	18	0	0			
Agra (R) (Aerodrome)	0530	168																												
(R)	0830	"																												
(R)	1130	"																												
(R)	1730	"																												
	2330	"																												
Mainpuri	0830	157	1001.2	983.7	+0.5	28.0	26.6	25.8	34.4	88	+7	5.5	0	1.5	0	0	14	0	0	10	0	0	0	2	2	17	0	0		
	1730	"	997.2	980.2	..	30.4	27.5	26.2	34.2	80	..	5.4	..	1.6	0	0	16	0	0	3	1	0	0	10	2	15	0	0		
Aligarh	0830	187	1001.2	980.3	..	28.0	26.3	25.5	32.5	85	+7	5.4	+0.8	2.5	0	0	22	1	0	9	0	2	0	8	2	9	0	0		
	1730	"	998.1	977.5	..	30.8	28.6	27.6	36.7	83	..	5.8	..	2.0	0	0	19	6	0	1	1	0	1	1	8	2	12	0	0	
Bareilly	0830	173	1001.1	981.9	+0.2	28.0	26.2	25.4	32.5	87	+3	6.9	+1	3.4	0	0	26	1	1	14	6	2	1	1	0	5	0	0		
	1730	"	997.7	978.6	..	30.0	26.9	25.5	33.9	78	..	5.8	..	1.5	0	0	13	1	0	6	2	2	0	1	1	18	0	0		
Bareilly (P.B.O.)	0230	172	1000.0	980.7	..	26.9	26.0	25.7	32.6	93	..	5.4	..	5.9	0	0	23	0	2	14	4	1	0	1	1	8	0	0		
	0530	"	1000.1	980.9	..	26.5	25.6	25.4	32.6	95	..	6.3	..	7.3	0	0	28	1	3	15	4	0	2	2	1	3	0	2	0	
	1130	"	1001.3	982.3	..	29.5	27.2	26.4	34.3	84	..	6.3	..	6.4	0	0	29	0	2	13	8	2	1	3	0	2	0	9	0	
	2330	"	1000.6	981.4	..	27.8	26.6	26.2	34.1	91	..	5.2	..	5.2	0	0	22	0	2	10	7	2	1	0	0	0	9	0	0	
Meerut	0830	222	1001.5	976.8	+0.6	27.8	26.2	25.4	32.5	85	+5	3.8	-1.4	2.1	0	0	11	0	0	11	0	0	0	0	0	20	0	0		
Najibabad	0830	270	1001.7	971.7	..	27.1	25.4	24.5	31.4	84	..	5.0	..	3.0	0	0	28	0	1	5	21	0	0	0	1	3	0	0	7	0
	1730	"	998.7	969.1	..	30.9	26.8	24.9	31.8	71	..	3.6	..	2.2	0	0	21	0	1	3	10	0	0	0	0	7	10	0	0	
Roorkee	0830	274	1001.6	971.2	+0.6	27.1	25.6	25.0	31.4	89	+7	4.9	-0.4	0.7	0	0	8	0	0	0	8	0	0	0	0	0	0	0	23	0
	1730	"	997.9	968.0	..	31.0	27.7	25.8	34.6	75	..	4.4	..	1.1	0	0	11	0	0	0	10	0	0	0	0	1	20	0	0	
Dehra Dun	0530	682	1000.6	925.9	..	23.2	22.5	22.2	26.7	94	..	5.9	..	1.4	0	0	13	3	6	0	0	0	2	1	2	25	0	0		
	0830	"	1002.0	927.5	+0.6	24.5	23.3	22.9	2																					

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—AUGUST, 1958 (SRAVANA 10—BHADRA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.		Height of barometer cistern above mean sea level in metres	Mean pressure in millibars		Mean temperature in °C			Vapour pressure in mbs.	Relative humidity %	Cloud amount (Okta)		Wind speed (kms.p.h.)	No. of observations															
	At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level		At mean sea level or height in g.p.m. of nearest standard isobaric level		Departure from normal	Dry bulb	Wet bulb	Dew point		Mean amount			Departure from normal	Mean wind speed, kms. per hour	Wind direction													
	5	6		7	8		9	10	11		12	13	14			16	17	18	19	20	21	22	23	24	25	26	27	28	
Punjab (India) (Includ- ing Delhi)—Contd.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
Karnal	0830	249	1000.8	972.9	..	26.6	25.3	24.6	31.1	90	..	5.5	..	..	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fatjala	1730	„	998.0	970.8	..	31.2	26.9	24.9	32.1	71	..	5.2	..	..	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0830	251	1001.4	973.8	..	27.5	25.8	25.5	31.4	81	..	4.9	..	5.9	0	0	21	0	1	2	46	0	0	0	0	2	10	0	
Ambala	1730	„	997.6	970.2	..	31.4	26.4	24.3	29.8	67	..	4.7	..	4.9	0	0	24	2	0	2	11	0	0	0	0	9	7	0	
	0830	272	1000.0	970.0	-0.4	26.7	25.6	24.9	31.9	89	+10	3.3	-1.4	2.5	0	0	15	0	0	0	1	7	2	0	0	0	5	16	0
Ambala (P.B.O.)	1730	„	996.9	967.5	..	31.4	26.8	24.5	31.0	68	..	2.8	..	3.0	0	0	24	0	2	3	18	1	0	0	0	0	7	0	
	0230	278	999.6	968.7	..	26.8	25.2	24.6	30.3	88	..	3.5	..	6.1	0	0	23	0	1	7	13	1	1	0	0	0	1	7	0
Ambala (Aerodrome)	0530	„	999.6	968.6	..	26.1	24.8	24.3	30.0	90	..	4.8	..	5.7	0	1	23	0	0	0	0	13	0	0	0	0	10	8	0
	1130	„	1000.9	970.3	..	29.5	26.1	24.9	31.1	77	..	5.6	..	7.9	0	0	28	2	1	5	14	2	2	1	1	3	3	0	
Chandigarh	2330	„	999.7	969.0	..	27.9	25.6	24.7	30.9	83	..	3.3	..	5.7	0	0	23	0	0	0	3	16	1	0	0	0	3	8	0
	0530	273	999.7	969.2	..	25.3	25.0	24.8	30.4	97	..	4.5	..	7.5	0	1	25	1	0	21	2	0	0	0	0	2	5	0	
Ludhiana	0830	„	1001.0	970.5	..	27.1	25.9	25.4	32.4	90	..	5.9	..	9.1	0	0	26	4	2	13	8	0	0	0	0	1	3	0	
	1130	„	1001.0	970.7	..	29.3	26.8	25.9	33.5	82	..	6.0	..	11.9	0	6	24	1	2	12	8	1	0	0	2	4	1	0	
Ferozepur	1730	„	997.9	967.4	..	30.8	27.0	25.4	31.5	74	..	5.0	..	16.8	0	3	22	0	1	8	5	0	0	0	3	8	6	0	
	0830	247	1001.1	973.4	+0.4	28.6	25.9	24.8	30.6	80	+5	3.3	-0.4	2.2	0	0	22	0	3	1	14	2	1	0	1	9	0		
Amritsar	1730	„	997.1	970.1	..	32.3	26.8	24.4	30.4	65	..	2.7	..	2.7	0	0	21	2	8	0	5.	2	1	0	3	10	0		
	0530	234	999.7	973.5	..	25.6	24.6	24.3	29.7	92	..	3.6	..	5.5	0	1	21	2	0	10	8	1	0	0	1	9	0		
Pathankot	0830	344	1001.7	963.7	..	26.8	24.7	24.3	28.8	84	..	5.0	..	1.7	0	0	15	0	4	3	3	0	0	1	1	16	0		
	1730	„	998.9	961.5	..	31.3	26.5	24.4	30.5	68	..	4.1	..	2.8	0	0	21	0	0	2	3	2	0	0	10	2	10	0	
Pathankot (Aerodrome)	0830	312	1001.2	966.8	..	27.4	24.6	23.2	28.4	79	..	5.0	..	3.7	0	0	26	0	7	9	4	3	0	3	0	5	1	0	
	1130	„	1001.0	966.9	..	30.0	25.6	23.9	29.1	70	..	5.3	..	5.2	0	0	30	0	2	5	2	4	9	5	3	1	0		
Himachal Pradesh Bilaspur	1730	„	997.4	963.4	..	31.4	26.0	23.5	29.6	64	..	3.9	..	4.1	0	0	30	0	6	3	1	0	5	12	3	1	0		
	0830	493	1001.8	947.4	..	25.2	23.6	22.9	27.5	87	..	5.3	..	2.5	0	0	16	5	2	2	3	1	0	1	15	0			
Mandi	1730	„	997.9	944.5	..	30.0	24.9	22.8	28.0	66	..	4.8	..	6.3	0	1	30	1	6	1	0	9	4	3	7	0			
	0830	761	1001.1	918.4	..	24.0	22.4	21.8	26.3	87	..	4.4	..	0.6	0	0	6	0	3	1	0	1	0	1	25	0			
Jammu and Kashmir Srinagar	1730	„	996.8	915.4	..	27.5	23.8	21.8	27.0	71	..	5.0	..	1.6	0	0	17	0	0	0	1	2	4	2	2	6	14	0	
	0530	1587	1438.5	835.6	..	17.2	16.1	15.4	17.6	90	..	4.3	..	2.1	0	0	19	0	1	0	0	9	0	3	6	1	12	0	
Gulmarg	0830	„	1448.1	836.6	+1.4	19.9	17.3	15.9	17.9	78	-5	4.3	+0.5	2.7	0	0	19	0	1	0	0	3	0	3	7	4	14	0	
	1130	„	1444.0	836.4	..	24.5	19.1	16.4	18.2	62	..	5.2	..	2.2	0	0	17	0	0	0	0	3	0	3	7	4	14	0	
Leh	1730	„	1410.5	833.4	..	27.1	19.2	15.0	17.5	49	..	3.1	..	2.8	0	0	20	0	1	0	5	0	0	0	11	3	11	0	
	0830	2330	1435.9	835.8	..	19.3	17.2	16.1	18.2	82	..	2.7	..	2.2	0	0	14	0	3	0	4	1	1	2	3	17	0		
Skardu (R)	0830	2655	3101.1	737.9	+0.9	14.7	12.2	10.4	12.4	76	-5	4.3	+0.1	3.1	0	0	20	3	7	3	2	0	3	2	0	11	0		
	1730	„	3084.7	736.4	..	17.6	14.6	12.6	14.8	74	..	3.9	..	6.7	0	1	26	1	9	7	1	0	0	2	5	2	4	0	
Gilgit (R)	0530	3514	3076.3	664.3	..	9.8	4.8	-1.2	5.8	48	..	3.4	..	4.3	0	0	21	8	12	1	0	0	0	3	3	0	0	25	0
	0830	„	3078.4	665.2	+0.1	14.1	6.7	-1.3	5.4	36	-23	3.4	-0.4	1.0	0	0	6	0	0	0	0	3	3	0	0	0	0	25	0
Misgar (R)	1730	„	3022.2	661.5	..	19.9	10.4	2.4†	7.5	34	..	4.0	..	5.8	0	0	5	0	0	0	0	3	2	0	0	0	0	25	0
	0830	3106	„	„	..	26.9	24.6	23.6	28.8	83	+4	5.0	+0.8	10.0	0	0	31	1	27	0	0	0	1	0	2	0	0	0	
Jammu (R)	1730	„	„
	0830	3106	„
Rajasthan (West) Sri Ganganagar	0530	177	998.7	979.1	..	27.9	24.5	22.8	27.9	74	..	2.9	..	3.3	0	0	22	1	0	5	3	4	8	0	1	9	0		
	0830	„	999.8	980.2	..	30.2	25.2	22.8	27.6	63	0	3.0	+1.3	4.0	0	0	22	0	1	1	6	2	9	3	0	9	0		
Churu	1130	„	999.6	980.4	..	35.3	26.2	21.9	26.0	47	..	2.6	..	5.3	0	0	26	0	1	2	5	2	10	4	2	5	0		
	1730	„	995.8	976.7	..	36.1	26.2	21.4	25.7	43	..	2.4	..	3.7	0	1	28	7	3	4	0	3	10	2	0	0	0	16	0
Churu	2330	„	998.5	979.0	..	30.5	25.0	23.1	27.1	65	..	2.2	..	3.4	0	0	15	0	0	3	10	2	0	0					

(B) Register not received.

*Observations for 29 days.

† Observations for 30 days.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—AUGUST, 1958 (SRAVANA 10—BHADRA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs.	Relative humidity %	Cloud amount (Oktas)	Wind speed (km. p.h.)	No. of observations														
			At mean sea level or height in g.p.m. of nearest standard isobaric level			At station level							Wind direction														
	2	3	4	5	6	7	8	9		11			16	17	18	19	20	21	22	23	24	25	26	27	28		
1.																											
Rajasthan (West)— Contd.																											
Bikaner . . .	0830	224	1000.4	975.6	+0.1	30.4	25.5	23.3	28.7	67	-5	1.3	-1.7	9.3	0	0	29	0	0	0	3	1	14	6	5	2	0
	1730	"	996.0	972.0	..	37.5	26.3	20.9	25.3	40	..	2.0	..	9.2	0	1	30	1	8	0	4	10	1	4	1	0	
Bikaner (P.B.O.) . . .	0530	224	999.0	974.3	..	29.0	25.6	24.0	30.0	75	..	3.4	..	6.7	0	0	24	0	0	0	1	9	11	3	0	7	0
	1130	"	1000.0	975.7	..	35.1	27.4	23.8	29.3	51	..	2.6	..	10.2	0	2	29	3	5	1	0	3	12	5	2	0	0
Jaisalmer . . .	2330	"	998.7	974.2	..	32.9	26.7	24.7	30.0	64	..	2.5	..	10.0	0	0	29	1	0	2	1	14	9	1	1	2	0
	0830	242	1000.1	973.3	..	28.1	24.5	23.0	28.2	74	..	2.6	..	20.2	0	10	21	0	0	0	0	15	16	0	0	0	0
	1730	"	995.7	969.8	..	37.4	25.8	19.9	23.2	36	..	3.1	..	15.9	0	6	24	0	0	0	0	15	15	0	0	1	0
Phalodi . . .	0830	234	1001.2	975.4	..	29.2	25.3	23.5	29.6	72	..	3.7	..	18.7	0	10	20	1	0	0	1	3	17	7	1	1	0
	1730	"	997.4	972.3	..	37.4	26.7	21.9	25.5	41	..	3.0	..	18.2	0	13	18	2	2	0	0	5	12	4	4	0	0
Nagaur . . .	0830	298	1000.8	968.1	..	29.8	25.1	23.2	28.3	67	..	3.0	..	13.9	0	6	25	0	1	0	2	3	17	8	0	0	0
	1730	"	996.4	964.3	..	35.2	25.9	21.1	25.0	43	..	5.0	..	13.0	0	4	27	1	5	3	1	8	10	2	1	0	0
Jodhpur . . .	0230	224	999.9	975.1	..	29.5	24.6	22.2	26.6	66	..	3.3	..	8.0	0	2	23	0	0	0	0	4	18	3	0	6	0
	0530	"	1000.3	975.4	..	28.2	24.4	22.5	27.5	72	..	4.1	..	8.3	0	1	22	0	0	0	0	1	18	4	0	8	0
	0830	"	1001.9	977.0	+1.8	29.2	24.7	22.5	28.1	68	-11	4.4	-1.6	10.5	0	2	26	1	0	0	0	2	15	9	1	3	0
	1130	"	1001.6	977.1	..	33.1	25.6	22.2	26.6	53	..	4.7	..	11.2	0	2	27	0	0	0	0	3	13	11	2	2	0
	1730	"	997.6	973.4	..	35.5	25.6	20.6	24.6	44	..	5.3	..	11.0	0	3	26	2	2	0	1	3	18	2	0	2	1
Bagmer . . .	2330	"	1000.4	975.8	..	31.0	24.8	21.9	26.7	59	..	4.0	..	7.7	0	0	27	0	1	1	6	6	11	1	1	4	0
	0530	194	1000.2	978.6	..	27.6	24.8	23.4	28.9	78	..	3.8	..	11.5	0	2	29	0	0	0	0	3	19	8	1	0	0
	0830	"	1001.6	980.0	+0.6	28.6	25.2	23.5	29.5	74	-5	4.4	-1.0	11.7	0	3	28	0	0	0	1	6	10	11	3	0	0
	1130	"	1001.1	979.9	..	33.5	25.9	22.3	27.7	53	..	4.8	..	12.7	0	4	27	0	1	0	1	10	11	6	2	0	0
	1730	"	997.2	976.3	..	36.1	26.2	21.6	26.5	44	..	4.9	..	14.7	0	7	24	1	1	0	4	11	11	2	1	0	0
	2330	"	1000.3	978.9	..	31.6	25.6	22.8	27.7	60	..	3.4	..	12.7	0	3	28	0	1	0	2	8	14	6	0	0	0
Rajasthan (East)																											
Pillani . . .	0830	..	..	..	..	31.9	27.8	25.5	33.3	71	..	3.7	..	17.5	0	10	21	1	1	2	3	0	4	16	4	0	0
	1730	..	..	..	..	32.7	27.1	24.6	31.6	66	..	4.8	..	14.7	0	6	25	2	5	4	2	5	4	0	0	0	
Alwar . . .	0830	271	1001.1	970.9	..	28.0	25.9	25.1	31.7	82	..	5.2	..	2.5 (c) 4.6	0	0	17	2	1	4	1	2	2	3	2	14	0
	1730	"	998.4	968.4	..	30.4	26.7	24.3	32.6	75	..	5.8	..	2.9	0	0	29	0	2	2	2	2	5	16	0	2	0
Sikar . . .	0830	433	1001.2	953.8	..	28.8	24.3	22.1	27.0	68	..	4.4	..	10.9	0	1	30	0	2	2	0	4	1	2	3	10	1
	1730	"	997.1	950.5	..	33.4	24.8	20.9	24.1	50	..	5.7	..	2.7	0	0	28	4	2	2	1	2	5	9	3	3	0
Jaipur . . .	0830	436	1001.8	953.8	0	27.2	24.8	23.8	29.1	82	+4	5.2	-0.2	7.2	0	0	31	2	0	4	1	2	8	9	5	0	0
	1130	"	1001.4	954.0	..	30.5	25.6	23.4	28.7	67	..	5.5	..	10.9	0	1	30	0	2	2	0	4	1	16	6	0	0
	1730	"	998.0	950.7	..	30.7	25.7	23.5	28.7	67	..	6.4	..	7.5	0	0	28	0	6	5	2	3	8	3	1	3	0
Jaipur (Sanganer Aerodrome) . . .	0230	390	1000.2	956.9	..	25.7	24.5	24.0	29.9	91	..	5.1	..	..	0	0	26	1	0	5	1	3	5	6	5	5	0
	0530	"	1000.3	957.0	..	25.2	24.3	23.8	29.5	92	..	5.5	..	..	0	0	22	0	0	6	1	0	4	7	4	9	0
	0830	"	1001.3	958.3	..	27.5	25.1	24.0	29.3	82	..	5.0	..	..	0	0	24	0	0	4	1	0	3	10	6	7	0
	1130	"	1001.2	958.6	..	30.6	26.0	24.2	29.4	70	..	5.2	..	..	0	4	27	1	1	2	2	0	4	12	9	0	0
	1730	"	997.8	955.3	..	30.5	26.0	24.0	30.6	70	..	6.1	..	..	0	1	26	0	4	5	1	2	7	5	3	4	0
Dholpur . . .	2330	"	1000.7	957.6	..	26.6	25.0	24.3	30.5	88	..	5.4	..	..	0	0	26	1	1	8	1	1	9	3	2	5	0
Ajmer . . .	0830	176	1000.7	980.8	..	28.0	26.0	25.2	31.7	85	..	5.9	..	7.6 (a) 4.0	0	0	24	1	1	2	2	1	7	6	4	7	0
	1730	"	998.5	978.8	..	29.7	26.3	24.7	31.7	76	..	6.3	..	4.0	0	0	24	1	0	4	3	1	5	3	7	6	0
Ajmer . . .	0830	486	1001.6	948.5	0	27.3	23.7	22.1	26.5	74	-3	5.0	0	9.7	0	0	30	0	1	1	0	2	12	11	3	1	0
	1730	"	998.1	945.7	..	30.9	24.6	21.9	26.5	60	..	6.3	..	8.3	0	0	28	3	2	3	1	2	7	9	1	3	0
Kotah . . .	0530	257	1000.8	972.2	..	26.7	24.9	24.0	30.5	85	..	5.6	..														

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—AUGUST, 1958 (SRAVANA 10—BHADRA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Flight of barometer cistern above mean sea level in metres	Mean pressure in millibars	Mean temperature in °C												No. of observations																
				At station level				Departure from normal				Relative humidity %				Cloud amount (Octas)				Wind speed (kms. p.h.)				Wind direction								
				At mean sea level or height in & p.m. of nearest standard geobatic level	Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	At station level	Dew point	Vapour pressure in mbs.	At station level	Dew point	Vapour pressure in mbs.	At station level	Dew point	Vapour pressure in mbs.	Mean amount	Departure from normal	Mean amount	Departure from normal	Mean wind speed kms. per hour	62 or more	20 to 61	1 to 19	N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28					
Rajasthan (East)—contd.																																
Eripura (Jawai Dum)	0830	295	1002.5	969.5	..	27.5	24.6	23.4	28.4	80	..	5.7	..	6.6	0	0	30	0	0	0	5	10	14	1	0	1	0	0	0			
	1730	"	998.7	966.6	..	31.4	25.5	23.0	28.5	63	..	6.3	..	7.1	0	0	29	0	2	1	2	9	11	2	2	2	0	0	0			
Madhya Pradesh (West)	0230	207	1000.0	976.9	..	26.1	25.1	24.6	30.9	91	..	5.3	..	6.3	0	0	24	1	0	3	0	1	10	7	2	7	0	0	0			
Gwalior (P.B.O.)	0530	"	1000.0	976.9	..	25.8	24.8	24.4	30.4	92	..	5.8	..	6.0	0	1	21	2	0	2	0	2	7	7	2	9	0	0	0			
	0830	"	1001.3	978.3	+0.6	27.7	25.7	24.9	31.5	85	+3	5.9	-0.2	8.3	0	1	29	2	1	3	1	2	8	10	3	1	0	0	0			
	1130	"	1000.3	978.5	..	30.0	26.6	25.2	32.1	76	..	5.5	..	9.1	0	1	30	4	2	1	2	1	0	13	8	0	0	0	0	0		
	1730	"	998.3	975.5	..	29.6	26.2	24.7	31.3	76	..	7.2	..	7.1	0	1	27	5	3	0	0	1	3	8	8	3	0	0	0	0		
Sheopur Kalan																																
	0830	235	1001.8	975.7	..	27.4	25.7	24.8	31.5	87	..	6.2	..	7.4	0	1	30	2	3	1	0	10	10	5	0	0	0	0	0			
	1730	"	998.5	972.7	..	29.8	26.6	25.1	32.1	77	..	7.1	..	8.7	0	1	29	7	6	2	2	3	5	3	1	0	0	0	0			
Guna																																
	0530	478	1001.1	948.2	..	24.2	23.5	23.2	28.5	94	..	6.7	..	3.2	0	0	17	1	1	0	0	3	8	3	1	14	0	0	0	0		
	0830	"	1001.9	949.2	0	26.0	24.4	23.8	29.6	88	+2	6.5	+0.5	4.2	0	0	28	3	0	2	0	4	4	14	1	3	0	0	0	0		
	1130	"	1001.9	949.7	..	28.7	25.4	24.0	30.0	76	..	6.6	..	6.0	0	0	30	4	3	0	2	2	4	11	4	1	0	0	0	0		
	1730	"	998.6	946.5	..	28.3	25.1	23.8	29.4	77	..	7.2	..	6.9	0	0	28	5	1	3	0	4	5	3	7	3	0	0	0	0		
Rajgarh																																
	0830	382	1002.0	959.8	..	26.2	24.8	24.2	30.1	90	..	6.6	..	9.0	0	0	31	2	2	0	0	0	6	16	5	0	0	0	0	0		
	1730	"	998.9	957.1	..	28.4	25.4	23.9	29.9	78	..	7.6	..	9.3	0	2	27	1	4	0	2	0	4	15	3	2	0	0	0	0		
Neemuch																																
	0830	496	1003.2	948.6	+0.5	25.3	23.7	23.1	27.5	87	+2	6.5	+0.5	9.4	0	0	30	1	2	0	0	0	6	21	0	1	0	0	0	0		
	1730	"	999.9	945.8	..	27.6	24.3	22.9	27.2	77	..	7.3	..	8.9	0	1	27	4	5	0	0	0	0	1	16	2	3	0	0	0	0	
Ratlam																																
	0830	486	1003.4	949.4	..	24.0	23.1	22.8	29.3	93	..	7.3	..	4.2	0	0	27	0	1	0	0	0	1	10	12	3	4	0	0	0	0	
	1730	"	999.7	946.7	..	28.1	24.9	23.6	27.6	76	..	7.3	..	7.5	0	0	28	2	1	0	0	0	1	6	13	5	3	0	0	0	0	
Alirajpur																																
	0830	293	1004.0	971.2	..	25.3	24.1	23.3	29.1	90	..	7.1	..	10.6	0	0	31	0	0	0	0	0	0	9	21	1	0	0	0	0	0	
	1730	"	1000.1	968.2	..	28.9	25.3	23.7	29.6	75	..	6.9	..	11.7	0	1	30	2	0	0	0	0	0	2	11	15	1	0	0	0	0	0
Indore																																
	0530	567	1002.2	939.5	..	23.0	22.5	22.2	26.3	95	..	7.0	..	9.4	0	3	19	0	0	0	0	0	0	2	10	7	3	9	0	0	0	0
	0830	"	1003.3	940.8	-0.4	24.2	23.2	22.8	27.2	91	+4	7.2	0	13.1	0	2	29	1	0	0	0	0	0	1	11	12	6	0	0	0	0	0
	1130	"	1002.9	940.9	..	26.8	24.1	23.0	28.3	80	..	7.2	..	14.0	0	3	27	5	0	0	0	0	0	2	15	11	7	1	0	0	0	0
	1730	"	999.7	937.3	..	26.8	24.5	23.0	28.9	80	..	7.4	..	11.8	0	5	26	1	2	1	0	0	0	2	12	8	5	0	0	0	0	0
	2330	"	1003.0	940.4	..	23.8	23.1	22.9	27.9	95	..	6.8	..	9.3	0	2	23	3	1	1	0	0	0	3	15	1	1	6	0	0	0	0
Bhopal (Bairagarh)																																
	0230	523	1001.4	943.7	..	24.0	23.2	23.0	27.8	94	..	6.6	..	8.6	0	0	24	1	1	0	0	0	4	10	4	7	0	0	0	0	0	
	0530	"	1001.6	943.8	..	23.6	23.1	22.9	27.8	95	..	6.7	..	8.8	0	0	26	3	1	0	0	0	3	11	6	2	5	0	0	0	0	
	0830	"	1002.8	945.3	+0.1	25.2	23.8	23.2	28.4	89	+2	7.1	+0.5	12.8	0	4	24	1	2	0	0	0	3	8	7	7	3	0	0	0	0	
	1130	"	1002.2	945.2	..	27.9	24.7	23.3	28.8	77	..	7.1	..	14.8	0	7	24	2	3	0	1	1	6	12	6	0	0	0	0	0	0	
	1730	"	999.3	942.4	..	27.3	24.2	23.1	27.9	78	..	7.4	..	12.0	0	3	25	5	4	0	1	2	8	5	3	3	0	0	0	0	0	
	2330	"	1002.4	944.7	..	24.5	23.6	23.3	28.5	93	..	7.4	..	8.0	0	0	22	1	2	0	0	0	3	11	3	2	9	0				

TABAL III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—AUGUST, 1958 (SRAVANA 10—BHADRA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars												Mean temperature in °C													No. of observations																		
			At station level				At station level				Dry bulb				Wet bulb				Dew point				Vapour pressure in mbs.				N		NE		E		SE		S		SW		W		NW		Calm		Variable	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28																
Madhya Pradesh (East)—Contd.																																														
Jabalpur	0530	393	1001.1	957.5	..	24.6	23.8	23.4	28.8	93	..	6.8	..	0.8	0	0	5	1	0	0	0	0	3	1	0	26	0	0	16	0	0	0														
	0830	"	1002.4	959.0	+0.6	26.7	24.8	23.9	29.7	85	+1	6.9	+0.1	2.1	0	0	15	0	2	0	1	2	5	5	0	16	0	0	11	0	0	0														
	1130	"	1001.8	958.4	..	29.1	25.8	24.4	31.1	76	..	6.4	..	3.6	0	0	20	0	2	0	3	1	7	7	0	11	0	0	18	0	0	0														
	1730	"	998.8	955.8	..	28.0	25.3	24.1	29.4	81	..	7.1	..	2.2	0	0	13	1	3	2	2	1	2	2	0	18	0	0	26	0	0	0														
Mandla	0830	443	1002.6	953.8	..	25.5	24.2	23.6	28.5	89	..	6.6	..	0.9	0	0	5	0	0	0	0	0	3	1	1	1	1	0	26	0	0	0	0													
Pendra	0530	625	1001.4	932.8	..	23.1	22.8	22.6	27.1	97	..	6.9	..	6.3	0	0	26	5	2	0	1	5	7	1	1	4	6	1	0	0	5	0	0	0												
	0830	"	1002.5	934.2	+0.7	24.9	23.7	23.4	28.5	90	+5	7.0	+1.4	8.3	0	0	28	3	1	0	4	12	3	2	3	3	0	5	0	0	5	0	0	0												
	1130	"	1001.8	934.1	..	27.2	24.1	23.6	27.8	80	..	6.8	..	9.6	0	1	29	6	1	3	4	7	5	2	2	1	0	11	0	0	0	0	0	0												
	1730	"	999.1	931.4	..	26.3	24.1	23.3	28.4	84	..	7.0	..	6.1	0	1	19	5	1	1	2	9	2	0	0	11	0	0	0	0	0	0	0													
	2330	"	1002.1	933.7	..	23.9	23.3	23.1	28.3	95	..	6.5	..	6.2	0	1	21	3	0	0	1	9	7	1	1	9	0	0	0	0	0	0	0													
Ambikapur	0830	611	1002.5	935.8	..	25.5	23.6	22.5	27.6	85	..	5.1	..	8.5	0	1	26	3	1	0	4	7	8	2	2	4	0	0	0	0	0	0	0													
	1730	"	998.8	933.0	..	27.2	24.2	23.0	27.9	78	..	5.0	..	8.9	0	0	29	6	3	1	4	3	6	5	1	2	0	0	0	0	0	0	0													
Champa	0830	245	1003.1	975.8	..	26.8	25.2	24.4	30.7	87	..	7.2	..	3.7	0	0	25	1	0	4	4	2	0	13	1	1	6	0	0	0	0	0	0													
	1730	"	999.4	972.3	..	28.7	26.1	24.8	31.8	80	..	7.0	..	4.8	0	0	24	2	1	5	2	1	2	7	4	0	0	0	0	0	0	0	0													
Raigarh	0830	220	1002.6	978.1	..	27.5	25.6	24.7	31.1	85	..	7.1	..	4.6	0	0	31	0	2	1	11	0	14	1	2	0	0	0	0	0	0	0	0													
	1730	"	998.9	974.7	..	29.3	26.0	24.5	30.9	76	..	7.3	..	4.5	0	0	30	0	3	0	9	0	9	1	1	8	1	0	0	0	0	0	0													
Raipur	0530	298	1001.3	968.1	..	25.2	24.4	24.0	29.4	93	..	7.1	..	3.7	0	0	27	1	1	0	4	6	10	5	0	4	0	0	0	0	0	0	0	0												
	0830	"	1002.7	969.6	+0.4	26.7	24.8	24.1	29.9	85	-1	6.9	+0.6	4.2	0	0	30	0	2	0	5	6	10	4	3	1	0	26	0	0	0	0	0	0												
	1130	"	1002.1	969.3	..	29.2	25.8	24.2	30.4	75	..	6.9	..	4.9	0	0	28	0	1	1	5	5	8	6	2	3	0	0	0	0	0	0	0	0												
	1730	"	999.1	966.9	..	29.2	25.5	23.9	29.7	74	..	7.4	..	5.8	0	0	30	1	3	2	2	4	10	6	2	1	0	0	0	0	0	0	0	0												
Kanker	0830	402	1003.0	958.7	+0.1	26.5	24.3	23.3	28.5	83	+1	5.3	-1.5	0.6	0	0	5	0	0	0	0	0	1	4	3	2	0	21	0	0	0	0	0	0												
	1730	"	999.7	955.7	..	28.3	25.0	23.5	29.0	76	..	6.6	..	1.2	0	0	12	0	2	0	0	0	9	0	1	19	0	0	0	0	0	0	0	0	0											
Jagdalpur (P.B.O.)	0530	553	1002.2	941.2	..	23.0	22.4	22.1	27.6	95	..	7.2	..	1.8	0	0	10	0	0	0	1	3	2	8	3	1	13	0	0	0	0	0	0													
	0830	"	1003.3	942.5	+0.2	23.8	23.3	22.5	28.1	88	+3	7.5	+1.4	2.8	0	0	18	0	0	0	1	3	2	10	6	3	8	0	0	0	0	0	0	0												
	1130	"	1002.5	942.3	..	27.3	23.8	22.3	26.8	75	..	6.8	..	4.3	0	0	23	0	1	1	5	2	1	5	8	2	3	9	0	0	0	0	0	0	0											
	1730	"	1000.1	939.9	..	26.2	23.6	22.4	27.1	81	..	7.8	..	4.4	0	0	22	0	2	1	1	5	8	2	3	9	0	0	0	0	0	0	0	0												
	2330	"	1003.3	942.4	..	23.7	22.9	22.5	27.4	94	..	6.8	..	3.0	0	0	13	0	0	0	1	3	5	3	0	18	0	0	0	0	0	0	0	0	0											
Gujarat	0830	136	0002.8	987.6	-0.1	27.5	25.5	24.5	31.0	84	..	6.3	..	6.7	0	0	30	0	0	0	1	1	14	4	7	3	1	0	0	0	0	0	0	0	0											
	1730	"	998.8	983.8	..	33.2	26.7	24.0	29.7	60	..	6.4	..	8.4	0	0	31	3	0	0	2	8	12	6	0	0	0	0	0	0	0	0	0	0												
Idar*	0830	219	1003.3	978.7	..	26.0	24.7	24.0	30.0	89	..	7.3	..	5.6	0	0	24	2	0	1	2	3	10	9	1	3	0	0	0	0	0	0	0	0	0											
	1730	"	999.5	975.6	..	30.5	25.6	23.3	28.7	66	..	7.0	..	4.4	0	1	22	0	2	0	0	0	8	15	0	4	0	0	0	0	0	0	0	0	0											
Ahmedabad	0230	55	1002.0	995.8	..	26.6	25.1	24.5	30.6	87	..	6.7	..	6.3	0	0	24	1	0	0	1	3	9	8	2	7	0	0	0	0	0	0	0	0	0											
	0530	"	1002.0	995.8	..	26.2	24.8	24.2	30.1	89	..	6.4	..	5.2	0	0	22	0	0	0	0	0	4	9	7	2	9	0	0	0	0	0	0	0	0											
	0830	"	1003.3	997.1	-0.5	27.3	25.4	24.5	30.9	85	+3	6.5	+0.3	6.3	0	0	22	0	0	0</td																										

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—AUGUST, 1958 (SRAVANA 10—BHADRA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Octas)	Wind speed (kms.p.h.)	No. of observations																			
														Wind direction																			
			At mean sea level or height in gm. of nearest standard isobaric level	At station level	Departure from normal	Dry bulb	Wet bulb	Dew point						N	NE	E	SE	S	SW	W	NW	Calm	Variable										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28						
Saurashtra and Kutch																																	
Naliya	0830	..	..	..	..	28.2	25.6	24.4	30.7	81	..	6.0	..	17.9	0	11	19	0	0	0	0	3	13	12	2	1	0		
	1730	..	..	..	..	30.4	25.6	23.4	28.8	67	..	5.4	..	24.1	0	22	9	0	0	0	0	8	11	12	0	0	0		
Bhuj (P.B.O.)	0230	106	1001.5	989.6	..	26.8	24.6	23.5	29.0	82	..	3.3	..	12.1	0	3	28	1	0	0	0	0	0	24	6	0	0	0					
	0530	..	1001.4	989.6	..	26.6	24.5	23.5	29.1	83	..	4.5	..	10.0	0	3	26	0	0	0	0	0	0	19	9	1	2	0					
	0830	..	1002.6	990.8	+0.1	27.7	24.8	23.5	28.9	78	-1	5.5	-0.5	10.2	0	4	26	0	0	0	0	0	0	14	14	2	1	0					
	1130	..	1002.4	990.8	..	31.8	25.1	22.0	26.4	57	..	5.9	..	12.8	0	3	28	0	0	0	0	0	0	1	19	9	2	0	0				
	1730	..	999.3	987.7	..	32.7	25.3	21.7	26.3	53	..	5.1	..	17.6	0	9	22	0	0	0	0	0	0	0	20	11	0	0	0				
Bhuj (Aerodrome)	2330	..	1002.3	990.6	..	27.5	24.6	23.2	28.6	77	..	2.8	..	15.6	0	5	26	0	0	0	0	0	0	0	23	8	0	0	0				
Bhuj (Aerodrome)	0830	80	1002.5	993.6	..	27.9	24.9	23.2	29.0	76	..	5.7	..	13.0	0	3	28	0	0	0	0	0	0	0	11	16	4	0	0				
	1130	..	1002.2	993.5	..	31.5	25.0	22.0	26.3	57	..	6.5	..	18.8	0	12	19	0	0	0	0	0	0	0	1	9	17	4	0	0			
Kandla	0830	5	1003.1	1002.6	..	28.0	25.4	24.3	30.0	81	..	5.5	..	18.9	0	9	22	0	0	1	0	1	27	2	0	0	0	0			
Mandvi	1730	..	1000.0	999.5	..	31.7	26.3	23.8	29.8	64	..	4.8	..	38.1	0	30	1	0	1	0	0	0	1	29	0	0	0	0	0		
Dwarka	0830	9	1003.1	1002.1	..	28.4	27.6	27.5	36.2	94	..	6.3	..	26.6	0	20	11	0	0	0	0	0	0	9	12	7	0	3			
	1730	..	1000.5	999.5	..	29.9	28.7	28.1	38.3	92	..	5.6	..	36.0	0	30	1	0	0	0	0	0	0	0	7	20	0	0	4				
Porbander	0830	11	1003.5	1002.2	0	27.8	26.1	25.4	32.5	87	+1	6.9	+0.1	17.4	0	11	19	0	0	0	0	0	0	7	18	5	1	0			
Porbander (Aerodrome)	0830	..	1730	..	1003.8	1003.0	..	28.5	25.8	24.8	31.0	80	..	6.2	..	16.4	0	8	23	2	0	0	0	0	0	8	13	8	0	0			
Jamnagar	0530	23	1001.8	999.2	..	26.1	24.7	24.1	30.0	89	..	5.0	..	12.9	0	7	24	0	0	0	0	0	0	3	16	11	1	0	0		
	0830	..	1003.1	1000.6	-0.1	28.3	25.7	24.5	30.8	80	-2	5.8	+0.9	15.5	0	8	23	0	0	0	0	0	0	0	14	14	3	0	0				
	1130	..	1003.4	1000.9	..	31.2	26.0	23.7	29.4	65	..	6.1	..	21.5	0	20	11	0	0	0	0	0	0	0	4	22	5	0	0				
Rajkot (Aerodrome)	0830	134	1003.4	988.4	-0.1	26.8	25.4	24.8	31.3	89	+6	4.0	-2.5	19.7	0	14	17	0	0	0	0	0	0	20	10	1	0	0			
	1130	..	1003.2	988.4	..	30.3	26.5	24.7	31.6	73	..	5.4	..	23.2	0	21	9	1	0	0	0	0	0	0	16	8	5	1	0				
Surendranagar	..	..	1730	..	999.7	985.0	..	31.5	26.7	24.6	31.0	68	..	5.3	..	26.8	0	21	10	1	0	0	1	1	14	11	3	0	0		
Bhavnagar	0830	17	1004.1	1002.2	-0.1	27.0	25.5	24.7	31.5	87	+10	5.7	-0.6	4.0	0	0	31	0	1	0	0	1	1	15	4	10	0	0			
Bhavnagar (Aerodrome)	0830	..	1730	..	1000.5	998.6	..	30.7	26.5	24.4	31.2	70	..	6.8	..	5.5	0	0	28	0	0	0	0	6	7	9	3	3	0				
Mahuva	0830	16	1004.1	1002.3	..	26.6	25.9	25.7	33.0	95	..	6.4	..	7.5	0	1	24	0	0	0	0	0	0	11	10	4	6	0			
	1730	..	1001.6	999.8	..	28.2	26.7	26.0	33.7	88	..	6.2	..	17.9	0	8	22	0	1	0	0	0	0	0	9	13	6	1	0				
Keshod	..	..	0830	51	1004.1	998.3	..	27.5	25.6	24.9	31.1	85	..	5.8	..	13.0	0	6	19	2	0	0	0	1	4	17	1	6	0		
	1130	..	1004.4	998.6	..	29.6	26.1	24.7	31.2	75	..	6.5	..	20.5	0	16	11	1	0	0	0	0	0	0	4	19	3	4	0				
Veraval	0230	8	1002.8	1001.9	..	27.3	25.9	25.4	32.3	89	..	5.1	..	16.6	0	11	19	1	0	0	0	0	0	0	12	15	2	1	0		
	0530	..	1002.6	1001.7	..	27.1	25.7	25.2	31.9	89	..	5.2	..	16.5	0	10	18	1	0	0	0	0	0	0	8	16	3	3	0				
	0830	..	1004.1	1003.2	-0.7	27.6	26.2	25.5	32.7	89	+3	6.2	-0.5	14.9	0	10	18	3	0	0	0	0	0	0	6	14	5	3	0				
	1130	..	1004.6	1003.7	..	29.0	26.8	25.9	33.4	84	..	6.3	..	16.4	0	10	20	1	0	0	0	0	0	0	9	16	4	1	0				
	1730	..	1001.9	1001.0	..	28.5	26.6	25.9	33.2	85	..	6.7	..	18.3	0	14	17	0	0	0	0	0	0	0	1	9	19	2	0	0			
	2330	..	1004.1	1003.2	..	27.5	26.1	25.6	32.7	90	..	5.7	..	16.9	0	10	21	1	0	0	0	0	0	0	12	16	2	0	0				
Konkan																																	
Dahanu	0830	5	1004.5	1004.0	+0.1	26.1	25.3	24.9	31.6	93	+5	7.3	0	14.5	0	5	23	0	0	5	8	5	2	8	0	3	0	0			
	1730	..	1002.2	1001.7	..	27.9	26.0	25.1	32.1	86	..	7.2	..	16.0	0	6	25	3	0	0	1	0	5	19	3	0	0	0	0				
Bombay (Colaba)	0830	11	1005.3	1004.1	-1.2	26.2	25.1	24.5	31.0	91	+8	7.2	+0.2	9.9	0	3	28	2	1	0	4	3	4	12	5	0	0	0			
	1130	..	1005.7	1004.5	..	27.6	25.8	25.1	31.9	87	..	7.3	..	9.9	0	0	30	1	0	0	4	3	4	9	13	3	1	0	0				
Bombay (Santacruz Aerodrome)	..	..	1730	..	1003.2	1002.0	..	27.1	25.5	24.8	31.3	87	..	7.2	..																

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—AUGUST, 1958 (SRAVANA 10—BHADRA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs.			Relative humidity %			Cloud amount (Octas)			Wind speed (kms. p.h.)			No. of observations										
			At mean sea level or height in g.p.m. of nearest standard isobaric level			At station level			Departure from normal			Departure from normal			Mean amount			Departure from normal			Mean wind speed, kms. per hour										
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28			
Konkan—Contd.																															
Alibag . . .	0830	7	1005.3	1004.5	-1.3	26.1	25.0	24.5	30.8	91	+7	7.7	+0.4	14.8	0	9	22	1	1	2	6	2	11	4	4	0	0	0			
Harmai . . .	0830	20	1005.6	1003.3	-0.3	25.9	24.7	24.1	30.1	90	+5	8.0	..	13.0	0	11	7	0	0	0	1	1	13	2	13	0	0	0			
Ratnagiri . . .	0830	35	1006.5	1002.5	-1.1	25.4	24.5	24.0	30.0	92	..	6.5	..	16.2	0	8	20	3	0	0	0	0	0	0	0	0	0	0			
1730 " " "	1004.3	1000.3	..	26.3	25.0	24.3	30.6	89	..	7.7	..	..	..	0	8	23	0	0	0	9	0	0	0	0	0	0	0	0		
Deogad . . .	0830	36	1006.4	1002.4	-0.2	25.4	24.9	24.6	31.1	95	+7	7.6	+0.9	18.2	0	13	18	0	0	0	4	4	1	1	13	8	0	0	0		
Vengurla* . . .	0230	9	1005.9	1004.9	..	24.8	24.2	23.9	29.8	95	..	7.6	..	24.8	0	19	12	0	0	0	0	0	0	0	0	0	0	0	0		
0530 " " "	1005.7	1004.7	..	24.5	24.0	23.6	29.4	95	..	7.4	..	(c) 3.1	..	0	0	14	0	0	1	0	4	0	2	5	5	14	0	0			
0830 " " "	1007.2	1006.2	..	25.1	24.5	24.2	30.3	95	..	7.7	..	(b) 4.8	..	0	1	14	0	0	0	3	3	1	3	3	4	14	0	0			
1130 " " "	1007.6	1006.6	..	26.6	25.2	24.5	30.9	89	..	7.6	..	(e) 7.8	..	0	1	19	0	0	0	2	3	7	8	5	6	0	0				
1730 " " "	1005.1	1004.1	..	26.2	25.0	24.5	30.7	91	..	7.7	..	(d) 8.4	..	0	2	19	1	0	0	0	2	10	8	4	6	0	0				
2330 " " "	1007.3	1006.3	..	24.9	24.4	24.1	30.1	95	..	7.1	..	(b) 3.2	..	0	0	10	0	0	1	0	0	0	0	0	0	0	0				
Maharashtra	Nandurbar . . .	0830	206	1004.2	981.1	..	25.9	24.3	23.6	29.0	87	..	7.8	..	9.5	0	0	30	0	0	0	0	0	0	24	5	1	1	0		
1730 " " "	1000.9	978.0	..	28.3	25.2	23.8	29.4	77	..	7.6	..	10.9	0	0	31	0	0	0	0	0	0	0	0	0	28	2	1	0	0		
Jalgaon . . .	0830	201	1003.7	981.2	..	25.7	24.4	23.7	29.6	90	..	7.1	..	11.0	0	1	26	0	0	0	0	0	0	0	0	1	19	6	4	0	
1730 " " "	1000.5	978.2	..	28.5	25.2	23.7	29.3	76	..	7.0	..	14.2	0	7	24	3	2	0	0	1	5	10	10	0	0	0	0	0			
Malegaon . . .	0830	437	1003.9	955.5	-0.8	25.3	23.4	22.6	27.2	85	+9	6.9	+1.1	6.7	0	0	27	1	0	0	0	0	0	0	0	0	0	0	0	0	
1730 " " "	1000.8	952.7	..	26.5	23.6	22.3	26.7	79	..	7.7	..	8.7	0	1	26	3	1	0	0	0	0	0	0	0	0	0	0	0	0		
Deolali . . .	0830	571	1005.4	942.2	..	23.3	22.4	21.9	26.5	92	..	7.1	..	11.3	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	
1730 " " "	1002.7	939.9	..	24.8	22.8	22.1	26.3	85	..	7.0	..	18.0	0	10	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aurangabad . . .	0830	581	1005.1	940.9	-0.8	23.6	22.5	21.9	26.5	90	+7	6.6	-0.4	11.4	0	0	31	0	0	1	1	0	0	0	0	0	0	0	0	0	
1730 " " "	1001.2	937.9	..	26.2	23.6	22.2	27.3	80	..	7.3	..	11.0	0	4	25	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	
Aurangabad . . .	0230	579	1003.3	939.3	..	22.6	21.8	21.4	25.5	93	..	7.4	..	6.6	0	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(Chikalthana Aerodrome). Aero-	0530	"	1003.2	939.1	..	22.2	21.6	21.2	25.4	95	..	7.0	..	5.0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0830	"	1004.3	940.4	..	23.7	22.3	21.7	25.9	88	..	7.2	..	8.0	0	0	25	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1130	"	1003.7	940.5	..	26.8	23.5	22.0	26.5	76	..	7.1	..	11.1	0	2	27	0	0	1	0	1	1	2	0	0	0	0	0	0	0	0
1730	"	1000.5	937.4	..	26.5	23.2	21.7	25.9	77	..	7.5	..	12.8	0	5	22	0	0	1	1	1	1	5	16	2	0	0	0	0	0	
2330	"	1004.3	940.3	..	23.3	22.3	21.8	26.1	92	..	7.4	..	9.3	0	1	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Ahmednagar . . .	0830	657	1004.6	932.4	-1.1	23.3	21.8	21.1	24.9	88	+10	6.1	+0.7	4.1	0	0	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1730 " " "	1000.8	929.7	..	26.6	22.9	21.0	25.3	72	..	7.1	..	6.0	0	0	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Parbhani . . .	0830	423	1004.7	957.6	..	24.3	23.5	23.1	28.3	94	..	7.5	..	11.4	0	1	28	0	0	1	0	1	5	22	0	2	0	0	0	0	0
1730 " " "	1000.7	954.3	..	27.6	25.6	24.7	31.3	85	..	7.5	..	11.9	0	1	29	3	1	1	1	1	1	5	16	2	1	0	0	0	0	0	
Poona . . .	0530	559	1004.0	941.9	..	22.3	21.5	21.0	25.1	93	..	7.1	..	1.3	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0830 " " "	1005.2	943.4	-0.9	23.6	22.2	21.6	25.8	89	+8	7.3	+0.9	1.1	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1130 " " "	1004.7	943.5	..	26.6	23.3	21.9	26.1	76	..	7.2	..	5.0	0	0	24	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1730 " " "	1002.3	941.0	..	25.3	22.8	21.7	25.9	81	..	7.3	..	5.3	0	0	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2330 " " "	1005.4	913.4	..	23.0	21.9	21.4	25.5	91	..	7.5	..	1.8	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Poona (Lohagaon Aerodrome).	0230	593	1004.3	938.6	..	21.9	21.3	21.0	24.9	94	..	7.3	..	9.9	0	2	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0530	"	1004.1	938.3	..	21.8	21.3	21.1	25.0	95	..	7.3	..	9.3	0	0	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0830	"	1005.2	939.6	..	23.1	21.8	21.3	25.2</td																							

TABLE III.—SUMMARY OF OBSERVATIONS AT FIXED HOURS—AUGUST, 1958 (SRAVANA 10—BHADRA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars												Mean temperature in °C												No. of observations											
			At station level			Departure from normal			Dry bulb			Wet bulb			Dew point			Vapour pressure in mbs.			Relative humidity %			Departure from normal			Cloud amount (Octas)			Wind speed, knts. per hour			Wind direction					
			At mean sea level or height in g.p.m. of nearest standard barometric level	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	N	NE	E	SE	S	SW	W	NW	Calm	Variable	
Vidarbha																																						
Buldhana	0830	650	1003.5	932.0	..	23.0	22.0	21.7	25.7	90	..	7.8	..	4.7	0	0	31	0	3	0	0	0	3	0	25	0	0	0	0	0	0	0	0	0	0	0		
	1730	"	1000.4	929.6	..	25.3	23.3	22.5	27.3	85	..	7.7	..	3.0	0	0	25	0	1	0	0	0	2	0	22	6	0	0	0	0	0	0	0	0	0	0		
Akola	0830	282	1003.3	971.8	-1.0	25.8	24.2	23.5	28.8	87	+7	7.3	+1.1	3.1	0	0	26	0	0	1	0	0	0	0	0	3	12	10	5	0	0	0	0	0	0	0	0	
	1130	"	1003.0	971.9	..	28.5	24.9	23.6	28.2	75	..	7.1	..	4.5	0	0	21	0	0	0	0	0	0	0	3	14	4	10	0	0	0	0	0	0	0	0		
Akola (Aerodrome)	0530	309	1002.1	967.4	..	24.1	23.4	22.9	28.4	94	..	7.1	..	5.9	0	1	26	0	0	0	0	0	1	4	20	2	4	0	0	0	0	0	0	0	0	0		
	2330	"	1002.7	968.1	..	25.1	24.0	23.5	28.9	92	..	6.8	..	6.1	0	1	24	1	0	0	0	0	3	5	11	5	6	0	0	0	0	0	0	0	0	0		
Amravati	0830	370	1003.5	962.4	-0.5	24.7	23.8	23.1	29.5	90	+7	7.2	+1.0	9.9	0	1	29	0	1	0	0	0	2	8	10	9	1	0	0	0	0	0	0	0	0	0		
	1730	"	999.9	959.0	..	27.6	24.5	23.9	30.2	77	..	7.7	..	10.0	0	0	31	0	4	0	3	2	11	4	7	0	0	0	0	0	0	0	0	0	0			
Yeotmal	0830	451	1003.4	953.4	..	24.7	23.6	23.2	28.3	91	..	6.9	..	12.0	0	4	27	1	1	1	0	5	4	14	5	0	0	0	0	0	0	0	0	0	0			
	1730	"	999.9	950.5	..	27.4	24.6	23.3	28.7	79	..	7.2	..	8.5	0	2	27	3	0	2	0	6	3	10	5	2	0	0	0	0	0	0	0	0	0			
Nagpur	0230	310	1001.4	966.7	..	24.8	24.3	24.1	30.5	96	..	6.8	..	5.7	0	0	24	3	3	2	1	2	4	6	3	7	0	0	0	0	0	0	0	0	0	0		
	0530	"	1001.6	966.9	..	24.4	24.1	23.8	29.7	97	..	6.2	..	4.7	0	0	24	2	0	2	2	6	7	5	5	0	0	0	0	0	0	0	0	0	0			
	0830	"	1003.0	968.5	-0.3	26.0	24.8	24.2	30.7	90	+8	7.2	+0.9	6.8	0	0	26	3	1	0	2	2	6	7	5	5	0	0	0	0	0	0	0	0	0	0		
	1130	"	1002.4	968.1	..	28.9	26.1	24.7	31.8	79	..	7.1	..	9.9	0	1	29	5	3	3	2	0	7	4	6	1	0	0	0	0	0	0	0	0	0			
	1730	"	999.3	965.1	..	28.8	26.1	25.0	31.8	81	..	7.1	..	7.3	0	1	26	4	1	0	3	4	6	2	7	4	0	0	0	0	0	0	0	0	0	0		
	2330	"	1002.4	967.7	..	25.3	24.7	24.3	30.2	95	..	6.6	..	5.5	0	1	20	3	1	1	0	1	5	5	5	10	0	0	0	0	0	0	0	0	0	0		
Gondia	0830	313	1000.3	968.3	..	26.1	24.6	23.8	29.6	86	..	6.9	..	3.7	0	0	29	3	2	2	3	3	10	1	3	2	2	0	0	0	0	0	0	0				
	1730	"	999.6	965.2	..	28.5	25.3	23.9	29.6	76	..	6.7	..	3.5	0	0	23	0	1	1	2	0	11	0	6	8	2	0	0	0	0	0	0	0	0			
Brahmapuri	0830	229	1003.7	978.0	..	26.0	24.7	24.0	30.0	90	..	7.3	..	7.1	0	0	29	1	1	0	7	2	8	7	3	2	0	0	0	0	0	0	0	0	0			
	1730	"	999.9	974.7	..	28.5	25.5	24.4	30.6	80	..	7.3	..	6.0	0	0	28	5	2	0	2	10	7	1	1	3	0	0	0	0	0	0	0	0	0			
Chanda	0830	193	1003.3	981.7	-0.7	26.3	24.8	24.1	30.2	88	+8	7.3	+1.3	5.7	0	0	28	1	0	1	4	4	6	7	5	3	0	0	0	0	0	0	0	0	0	0		
	1730	"	1000.0	978.5	..	27.9	25.6	24.6	30.8	83	..	7.3	..	7.1	0	0	26	2	3	4	1	3	5	5	3	0	0	0	0	0	0	0	0	0	0			
Sironcha	0830	123	1004.1	990.2	..	26.3	24.8	24.1	30.0	88	..	7.0	..	4.4	0	0	26	0	0	2	5	6	2	8	3	5	0	0	0	0	0	0	0	0	0	0		
	1730	"	1000.5	986.8	..	28.9	25.6	24.1	30.0	76	..	7.6	..	5.3	0	0	26	1	2	1	5	2	8	3	4	5	0	0	0	0	0	0	0	0	0	0		
Coastal Andhra Pradesh																																						
Nellore	0530	20	1004.0	1001.7	..	26.7	24.3	23.2	28.5	81	..	6.3	..	3.5	0	0	22	1	0	0	0	1	1	11	7	1	9	0	0	0	0	0	0	0	0	0	0	
	0830	"	1005.6	1003.3	-0.7	28.6	24.9	23.3	28.1	74	+9	7.2	+1.2	4.3	0	0	27	0	0	0	2	0	6	18	1	4	0	0	0	0	0	0	0	0	0	0		
	1130	"	1004.9	1002.7	..	31.4	25.4	22.6	27.3	61	..	7.2	..	6.8	0	0	29	0	0	1	2	1	8	13	4	2	0	0	0	0	0	0	0	0	0	0		
	1730	"	1001.7	999.5	..	31.5	25.9	23.4	29.0	63	..	7.0	..	5.9	0	0	29	0	1	5	4	0	6	11	2	2	0	0	0	0	0	0	0	0	0			
Ongole	0830	12	1005.1	1003.8	..	29.3	26.5	25.4	32.4	80	..	6.7	..	9.5	0	2	25	0	0	0	0	2	2	6	17	0	4	0	0	0	0	0	0	0	0	0		
	1730	"	1001.4	1000.1	..	31.3	28.1	27.0	35.1	78	..	6.3	..	8.0	0	0	28	0	0	0	6	3	2	9	7	1	3	0	0	0	0	0	0	0	0	0	0	
Rentachintala	0830	106	1004.8	992.9	..	27.1	24.6	23																														

TABLE III.—SUMMARY OF OBSERVATIONS AT FIXED HOURS—AUGUST, 1958 (SRAVANA 10—BHADRA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars				Mean temperature in °C			Relative humidity %	Cloud amount (Oktas)	Wind speed (kms.p.h.)	No. of observations																	
			At mean sea level or height in g.p.m. of nearest standard isobaric level		At station level	Departure from normal	Dew point	Vapour pressure in mb.	Mean amount				Mean wind speed, kms. per hour	Wind direction	N	NE	E	SE	S	SW	W	NW	Calm	Variable						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28			
Coastal Andhra Pradesh—Contd.																														
Calingapatam	0830	6	1003.0	1002.3	0	27.7	25.9	25.2	32.1	86	+5	6.5	+1.3	6.4	0	0	31	0	0	2	1	0	10	14	4	0	0			
	1730	"	1000.6	999.9	..	28.6	26.8	25.7	33.9	82	..	6.6	..	7.3	0	0	31	0	0	6	7	8	9	0	1	0	0			
Telangana																														
Ramagundam	0830	156	1003.4	985.9	..	26.8	24.7	23.9	29.0	85	..	7.2	..	5.9	0	0	30	0	0	1	6	1	3	12	7	1	0			
	1730	"	1000.2	982.5	..	29.8	25.7	23.9	29.6	73	..	6.8	..	4.6	0	2	26	2	3	2	4	3	3	10	1	3	0			
Nizamabad	0830	381	1004.2	961.7	-1.0	24.9	23.2	22.3	27.4	85	+6	6.7	+1.6	3.7	0	0	27	0	0	0	0	2	16	9	0	4	0			
	1730	"	1000.4	958.5	..	27.9	25.2	23.1	30.4	75	..	6.7	..	1.9	0	0	17	0	2	1	0	3	8	2	1	14	0			
Mahbubnagar	0830	505	1005.2	949.3	..	23.9	22.3	21.6	25.8	86	..	7.6	..	9.8	0	1	30	3	0	1	1	1	8	8	9	0	0			
	1730	"	1001.4	946.4	..	27.2	23.4	21.8	26.1	74	..	7.8	..	6.4	0	0	30	0	0	0	0	0	9	14	7	1	0			
Hyderabad (Begumpet Aerodrome)	0230	545	1003.4	943.2	..	23.1	22.2	21.9	26.2	92	..	7.2	..	13.5	0	7	18	0	0	2	2	0	0	16	5	6	0			
	0530	"	1003.5	943.3	..	22.7	21.8	21.4	25.5	93	..	7.2	..	13.4	0	8	17	0	0	1	1	0	2	18	3	6	0			
	0830	"	1004.7	944.6	-0.6	23.9	22.3	21.7	25.6	88	+8	7.4	+1.3	17.4	0	10	19	1	0	0	2	1	4	16	5	2	0			
	1130	"	1004.1	944.5	..	26.4	23.6	22.3	27.1	78	..	7.1	..	20.0	0	14	17	0	0	1	1	1	4	18	6	0	0			
	1730	"	1001.0	941.6	..	26.7	23.7	22.4	27.0	78	..	7.0	..	13.1	0	4	26	3	0	1	2	1	7	9	5	1	2			
	2330	"	1004.5	944.4	..	23.9	22.6	22.0	26.5	89	..	7.3	..	14.7	0	11	15	0	0	2	1	2	4	14	3	5	0			
Hakimpet	0530	613	1003.6	935.9	..	22.2	22.1	21.5	24.2	95	..	7.1	..	15.2	0	7	20	0	0	1	2	0	4	16	4	4	0			
	0830	"	1004.4	936.6	..	23.3	22.2	21.8	26.0	92	..	7.5	..	17.2	0	11	19	0	0	0	3	0	6	17	4	1	0			
	1130	"	1003.7	936.5	..	26.0	23.6	22.8	27.4	82	..	7.4	..	18.4	0	15	16	1	1	0	2	1	4	15	7	0	0			
	1730	"	1001.1	934.5	..	26.3	23.9	22.9	28.0	83	..	7.2	..	12.1	0	7	23	1	0	2	2	0	6	13	6	1	0			
Hanamkonda	0830	269	1004.4	974.4	-0.7	25.8	24.1	23.4	28.7	87	+12	6.3	+0.5	8.4	0	0	31	1	0	2	4	5	1	14	4	0	0			
	1730	"	1001.4	971.7	..	28.6	25.2	23.7	29.4	76	..	6.6	..	5.9	0	1	30	2	3	0	4	2	0	15	5	0	0			
Bhadrachallam	0830	111	1004.4	991.9	..	26.7	24.9	24.1	30.1	86	..	7.2	..	6.3	0	0	27	3	1	1	3	2	7	9	1	4	0			
	1730	"	1000.8	988.5	..	28.7	25.9	24.7	31.3	80	..	7.5	..	5.4	0	0	29	2	4	1	5	1	3	11	2	2	0			
Khammameth	0830	112	1004.3	991.7	..	26.4	25.0	24.4	30.2	88	..	6.6	..	7.3	0	1	25	1	0	2	1	3	7	11	1	5	0			
	1730	"	1000.9	988.8	..	29.6	25.8	24.2	30.3	71	..	6.9	..	6.1	0	0	25	1	0	4	3	1	6	9	1	6	0			
Rayalaseema																														
Arogavaram	0830	701	1006.3	929.6	..	23.8	21.0	19.6	22.8	77	..	7.0	..	9.4	0	1	29	1	1	0	1	1	2	9	15	1	0			
	1730	"	1002.1	926.5	..	26.9	21.9	19.5	22.7	65	..	7.2	..	10.2	0	0	30	3	0	0	0	1	2	10	14	1	0			
Guddapah	0830	130	1006.4	991.7	-1.0	27.3	25.4	24.4	30.8	86	+1.8	6.6	+0.7	3.8	0	0	17	0	0	0	0	0	0	0	10	7	14	0		
	1730	"	1001.9	987.5	..	30.9	29.1	28.3	38.9	87	..	5.6	..	4.8	0	0	15	0	0	0	0	0	0	0	0	10	5	16	0	
Anantapur	0530	350	1004.7	965.6	..	24.0	22.1	21.5	25.1	84	..	7.2	..	10.5	0	0	22	0	0	0	0	0	0	0	0	22	0	9	0	
	0830	"	1005.8	966.9	..	25.6	22.8	21.2	25.5	77	..	7.2	..	13.1	0	0	28	0	0	0	0	0	0	0	0	3	22	3	3	0
	1130	"	1004.9	966.4	..	29.2	23.4	20.5	23.9	60	..	7.1	..	17.5	0	15	13	0	1	1	0	0	4	15	7	3	0			
	1730	"	1001.6	963.3	..	29.2	23.4	20.3	23.9	60	..	7.3	..	17.4	0	1	27	0	1	1	1	1	4	15	5	3	0			
	2330	"	1005.5	966.5	..	25.5	22.7	21.3	25.5	78	..	7.0	..	14.9	0	11	16	1	0	0	0	0	3	22	1	4	0			
Kurnool	0830	281	1005.9	974.3	-1.1	25.1	23.1	22.6	26.7	83	+9	7.7	+1.8	16.1	0	6	24	1	0	0	0	0	0	18	9	2	1	0		
	1730	"	1001.5	970.5	..	28.8	24.4	22.3	26.9	69	..	7.2	..	14.6	0	8	22	3	3	0	0	0	4	15	5	1	0			
Madras State																														
Palayamcottai	0830	51	1007.5	1001.8	..	29.4	23.6	20.6	24.4	60	..	6.0	..	13.7	0	9	21	0	0	0	1	1	3	22	3	1	0			
	1730	"	1004.5	998.8	..	30.3	23.9	20.7	24.4	57	..	6.5	..	16.8	0	11	20	0	0	0	2	2	3	23	1	0	0			
Tuticorin	0830	4	1007.6	1007.2	..	29.8	23.9	18.9	24.0	55	..	4.5	..	16.1	0	11	20	2	1	0	0	0	7	16	5	0	0			
	1730	"	1004.4	1004.0	..	31.5	24.3	20.1	24.7	52	..	4.8	..	22.6	0	18	13	0	0	1	4	4	1	20	1	0	0			
Pamban	0830	11	1007.5	1006.2	-0.9	28.6	25.6	24.4	30.4	78	+2	4.6	+1.7	8.9	0	2	28	1	1	0	4	5	14	3						

TABLE III.—SUMMARY OF OBSERVATIONS AT FIXED HOURS—AUGUST, 1958 (SRAVANA 10—BHADRA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars		Mean temperature in °C			Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas)	Wind speed (kms.p.h.)	No. of observations															
			At mean sea level or height in g.p.m. of nearest standard isobaric level		At station level								Mean amount			Mean wind speed, kms. per hour	Wind direction											
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
1																												
Madras State—Contd. Coimbatore (Peelamedu Aerodrome)	0530	398	1006.1	961.4	..	22.3	21.5	21.2	25.0	93	..	6.5	..	17.6	0	9	21	0	0	0	1	8	20	1	0	1	0	
	0830	"	1007.4	962.9	..	24.5	22.3	21.2	25.1	82	..	6.4	..	23.6	0	22	8	0	0	0	0	5	25	0	0	1	0	
	1130	"	1006.3	962.4	..	28.6	23.2	20.4	24.0	62	..	6.1	..	32.5	0	25	6	0	0	0	0	3	27	1	0	0	1	
	1730	"	1003.8	959.7	..	27.4	22.8	20.5	24.0	66	..	6.7	..	41.5	0	30	1	0	0	0	0	0	7	22	2	0	0	0
	2330	"	1007.4	962.7	..	23.2	21.9	21.3	25.3	89	..	5.7	..	32.9	0	28	3	0	0	0	0	0	7	14	0	0	0	0
	Salem	0530	278	1005.9	974.6	..	23.6	22.6	22.2	26.3	92	..	6.5	..	2.9	0	0	21	0	0	0	0	0	7	14	0	0	10	0
Kallakurichi	0830	"	1007.2	976.0	-1.2	25.2	23.3	22.4	27.1	85	+7	6.4	+1.2	6.3	0	0	29	0	0	0	0	6	15	8	0	2	0	
	1130	"	1006.2	975.4	..	28.9	24.5	22.5	27.0	69	..	6.7	..	6.4	0	0	0	30	0	0	0	0	5	10	13	2	1	0
	1730	"	1002.8	972.2	..	29.4	24.7	22.6	27.3	68	..	7.3	..	3.3	0	0	24	2	2	0	0	0	1	8	10	1	7	0
	2330	"	1006.8	975.6	..	25.3	23.5	22.6	27.5	85	..	6.6	..	3.1	0	0	19	0	0	0	0	4	12	3	0	12	0	
	0830	127	1006.2	992.1	..	27.7	24.2	22.6	27.0	74	..	5.5	..	7.8	0	0	28	2	0	0	0	3	21	1	1	3	0	
	1730	"	1002.0	988.0	..	32.5	24.8	21.2	24.8	52	..	6.6	..	12.4	0	1	30	0	0	3	1	5	19	0	0	0	0	
Cuddalore	0530	12	1004.8	1003.5	..	25.7	24.1	23.4	28.7	87	..	6.6	..	0.7	0	0	5	0	0	0	0	2	2	0	1	26	0	
	0830	"	1006.3	1005.0	-1.3	27.9	24.9	23.5	29.1	77	+4	6.9	+1.9	1.8	0	0	9	0	0	0	0	2	5	2	0	22	0	
	1130	"	1005.8	1004.5	..	31.3	25.6	23.0	28.1	62	..	6.1	..	2.8	0	0	18	0	1	1	1	5	8	1	13	0	0	
	1730	"	1002.8	1001.5	..	30.9	26.1	24.0	29.9	68	..	6.2	..	4.1	0	0	22	0	1	1	14	4	2	0	0	9	0	
	2330	"	1006.0	1004.6	..	27.2	25.2	24.4	30.5	85	..	5.7	..	3.7	0	0	20	0	0	0	0	5	8	7	0	0	11	0
	Vellore	0530	214	1005.1	981.0	..	25.0	22.7	21.5	25.9	81	..	6.6	..	2.2	0	0	17	0	0	0	0	1	3	8	5	14	0
Tambaram (Acrodrome)	0830	"	1006.2	982.1	-0.9	26.4	23.2	21.4	25.1	74	+4	6.6	+2.1	3.2	0	0	23	4	1	0	0	0	0	13	5	8	0	0
	1130	"	1005.0	981.7	..	29.8	24.2	21.3	25.6	61	..	6.9	..	7.2	0	0	28	1	0	0	0	0	2	20	5	3	0	0
	1730	"	1001.7	978.5	..	31.4	24.5	21.0	25.0	55	..	7.0	..	4.4	0	0	20	1	1	0	2	1	5	9	1	11	0	
	2330	"	1006.0	982.0	..	26.3	23.5	22.1	26.5	79	..	6.2	..	3.4	0	0	19	0	1	0	1	0	3	10	4	12	0	
	0830	29	1005.7	1002.5	..	27.9	24.7	23.4	28.6	76	..	6.6	..	10.6	0	6	30	2	0	0	0	0	12	14	2	1	0	
	1730	"	1002.2	999.0	..	30.8	25.7	23.6	28.9	67	..	6.2	..	16.8	0	13	17	0	1	2	8	3	9	6	1	1	0	
Madras	0230	16	1004.5	1002.8	..	26.6	24.9	24.2	30.3	87	..	6.3	..	8.1	0	1	26	0	0	0	0	4	12	11	0	4	0	
	0530	"	1004.7	1003.0	..	26.2	24.6	23.9	30.0	87	..	6.8	..	6.2	0	0	25	0	0	0	0	2	12	11	0	6	0	
	0830	"	1006.3	1004.6	-0.6	27.6	25.0	23.8	29.7	80	+12	6.7	+1.3	8.2	0	0	30	3	0	0	0	3	11	13	0	1	0	
	1130	"	1005.6	1003.9	..	30.8	25.6	23.2	28.5	65	..	6.5	..	15.3	0	5	26	2	2	0	1	1	6	16	3	0	0	0
	1730	"	1002.6	1000.9	..	30.8	26.3	24.2	31.0	70	..	6.6	..	10.6	0	4	27	1	1	5	6	7	3	2	0	0	0	
	2330	"	1005.7	1003.9	..	27.1	25.3	24.5	31.1	87	..	6.5	..	8.0	0	1	27	1	0	0	5	12	5	3	2	3	0	
Madras (Nungambakkam)	0830	6	1000.6	1005.3	..	27.6	24.9	23.7	29.5	80	..	6.9	..	5.3	0	0	25	0	0	0	0	2	13	7	3	6	0	
	Karwar	0830	4	1007.6	1007.1	-1.2	25.5	24.5	24.0	29.9	92	..	7.9	..	6.2	0	1	20	2	0	0	2	2	1	3	3	10	8
	1730	"	1005.6	1005.1	..	26.3	24.8	24.1	30.0	89	..	7.8	..	13.0	0	7	20	1	0	1	0	9	1	6	8	4	10	
	Honavar	0830	26	1007.8	1004.9	-1.0	24.7	24.1	23.8	29.7	96	+5	8.0	+1.3	2.2	0	0	12	0	0	0	0	0	8	2	2	19	0
	Mangalore	0230	22	1007.1	1004.6	..	24.6	23.9	23.7	28.8	95	..	7.4	..	4.5	0	0	18	1	2	0	1	0	0	9	5	13	0
	0530	"	1007.0	1004.5	..	24.4	24.0	23.7	29.6	96	..	7.0	..	6.8	0	0	27	0	1	6	1	2	3	11	3	4	0	
Mangalore (Bajpe Aerodrome)	0830	"	1008.5	1006.0	-1.3	25.3	24.5	24.1	30.0	93	+3	7.2	+0.5	6.4	0	1	26	2	1	3	3	1	4	8	5	4	0	
	1130	"	1008.6	1006.1	..	26.8	25.2	24.4	30.4	87	..	7.0	..	8.9	0	0	29	1	0	0	2	1	4	10	11	2	0	
	1730	"	1006.3	1003.8	..	26.3	24.8	24.1	30.1	88	..	7.6	..	10.2	0	1	29	1	0	1	0	1	3	13	11	1	0	
	2330	"	1008.5	1006.0	..	25.2	24.3	23.9	29.6	93	..	7.1	..	7.5	0	1	27	4	0	0	3	2	1	9	9	3	0	
	0530	103	1007.1	995.4	..	23.7	23.6	23.4	29.1	99	..	7.5	..	2.2	0	0	9	0	0	0	2	0	0	1	6	0	22	0
	0830	"	1008.6	996.9	..	24.3	24.0	23.7	29.4	97	..	7.7	..	6.6	0	3	18	1	0	2	2	1</td						

TABLE III.—SUMMARY OF OBSERVATIONS AT FIXED HOURS—AUGUST, 1958 (SRAVANA 10—BHADRA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs.	Cloud amount (Octas)	Wind speed (kms.p.h.)	No. of observations																	
			At mean sea level	At height in ft. of nearest standard isobaric level	At station level	Dry bulb	Wet bulb	Dew point				Relative humidity %	Departure from normal	Mean amount	Departure from normal	Mean wind speed knts. per hour	N	NE	E	SE	S	SW	W	NW	Calm	Variable			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
Mysore (North)																													
Belgaum (Sambre Aerodrome)	0530	747	1005.4	923.4	..	21.8	20.9	20.5	24.2	92	..	7.2	..	7.2	0	3	15	0	0	0	0	0	0	18	0	13	0		
	0830	"	1006.7	924.6	..	22.2	21.2	20.7	24.5	91	..	7.6	..	9.5	0	1	24	1	0	0	0	0	0	22	2	6	0		
	1130	"	1006.4	924.8	..	24.0	22.1	21.4	25.2	85	..	7.3	..	14.4	0	8	19	0	0	0	0	0	0	1	25	1	4	0	
	1730	"	1003.8	922.3	..	23.5	21.8	21.1	25.0	87	..	7.2	..	26.1	0	22	9	0	0	0	0	0	0	1	28	1	0	1	
Gadag	0830	650	1006.7	935.1	-0.7	23.1	21.5	20.7	24.4	86	+2	7.2	+1.3	14.7	0	2	28	0	0	0	0	0	0	7	22	1	1	0	
	1730	"	1003.1	932.4	..	25.4	22.4	21.2	24.9	75	..	7.4	..	18.0	0	11	20	0	0	0	0	0	0	5	24	2	0	0	
	0530	661	1005.3	932.4	..	21.9	21.0	20.6	24.3	93	..	7.2	..	14.2	0	1	30	0	0	0	0	0	0	5	26	0	0	0	
	0830	"	1006.4	933.7	..	23.1	21.7	21.0	25.0	89	..	7.2	..	13.1	0	1	28	0	0	0	0	0	0	9	20	0	2	0	
Gadag (P.B.O.)	1130	"	1005.5	933.7	..	26.4	22.6	21.1	24.6	73	..	6.9	..	15.3	0	4	25	0	0	0	0	0	0	5	24	0	2	0	
	1730	"	1002.8	931.0	..	25.7	22.5	21.1	24.9	77	..	7.4	..	17.9	0	9	21	0	0	0	0	0	0	7	21	2	1	0	
	2330	"	1006.6	933.8	..	22.7	21.3	20.8	24.4	89	..	6.8	..	19.7	0	3	28	0	0	0	0	0	0	5	26	0	0	0	
	0830	400	1005.8	961.3	-1.1	24.5	22.8	21.8	26.5	85	+9	6.3	+2.0	10.7	0	2	28	1	0	0	0	0	0	7	10	9	3	1	
Raichur.	1730	"	1001.5	957.7	..	28.7	23.4	21.1	24.4	64	..	7.0	..	10.1	0	0	29	2	0	1	1	2	4	11	8	2	0	0	
Mysore (South)																													
Bellary	0830	449	1005.8	956.3	-1.1	25.6	22.1	20.3	23.7	72	+5	7.2	+1.6	7.2	0	0	29	0	1	0	0	0	4	1	23	2	0		
	1730	"	1001.8	952.7	..	27.9	22.9	20.2	24.0	64	..	7.6	..	8.5	0	0	30	0	3	0	0	0	5	1	21	1	0		
Chitaldrug	0830	733	1006.9	926.3	-1.0	22.2	20.6	19.7	23.0	86	+5	7.7	+0.8	10.5	0	1	29	0	0	0	0	0	15	15	0	1	0		
	1730	"	1003.5	923.8	..	24.7	21.3	19.6	23.0	75	..	7.2	..	8.9	0	0	27	0	0	0	0	0	1	12	13	1	4	0	
Shimoga	0830	571	1007.4	944.2	..	23.2	21.7	21.0	24.9	87	..	7.0	..	4.3	0	0	26	0	0	0	0	0	7	8	10	1	5	0	
	1730	"	1004.4	941.7	..	25.1	22.2	20.9	24.9	78	..	6.6	..	7.6	0	0	31	0	0	0	0	0	0	7	24	0	0	0	
Balchonnur	0830	..	..	..	..	20.0	19.6	19.3	22.4	96	+	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Hassan	0830	960	1482.2	903.3	..	20.5	19.5	19.1	21.9	91	+7	7.5	+0.9	10.5	0	0	29	0	0	0	0	0	0	6	22	1	2	0
Mysore	1730	"	1464.0	901.0	..	22.8	20.4	19.3	22.3	81	..	7.5	..	13.9	0	1	29	0	0	0	0	1	0	3	26	0	1	0	
	0830	767	1008.1	923.8	-1.1	22.0	20.5	19.6	23.2	87	+7	3.8	-2.5	11.5	0	1	30	4	2	4	5	3	7	3	3	0	0		
	1730	"	1004.3	921.3	..	25.4	21.3	19.2	22.2	69	..	5.3	..	14.9	0	6	25	2	1	0	0	0	2	8	14	4	0	0	
	0230	921	1465.1	905.6	..	20.2	19.5	19.1	21.7	93	..	6.7	..	14.1	0	1	30	0	0	0	0	0	0	4	24	3	0	0	
Bangalore (Central Observatory)	0830	"	1479.2	907.0	-1.0	20.9	19.9	19.4	22.5	91	+6	7.9	+0.7	13.1	0	1	29	0	0	0	0	0	0	8	21	1	1	0	
	1130	"	1482.7	906.8	..	24.1	21.0	19.4	22.5	75	..	7.6	..	16.3	0	6	25	1	1	0	0	0	0	2	21	6	0	0	
	1730	"	1458.7	904.2	..	24.1	21.0	19.4	22.9	76	..	7.5	..	15.1	0	8	23	0	1	0	0	0	0	2	19	8	0	0	
	0530	897	1465.7	908.2	..	20.2	19.4	19.1	22.0	93	..	7.2	..	16.4	0	7	21	0	0	0	0	0	0	2	25	1	3	0	
Bangalore (Aero-drome)	0830	"	1480.7	909.6	..	21.5	20.0	19.4	22.4	88	..	7.5	..	21.3	0	19	9	0	0	0	0	0	0	2	26	0	3	0	
	1130	"	1485.0	909.3	..	24.8	21.1	19.1	22.4	71	..	7.3	..	23.8	0	21	9	0	0	0	0	0	0	1	28	1	1	0	
	1730	"	1460.1	906.8	..	24.8	21.1	19.2	22.4	72	..	7.3	..	29.2	0	13	17	0	0	0	0	0	0	1	2	24	3	1	0
	2330	"	1478.9	909.4	..	21.4	20.1	19.3	22.4	87	..	6.6	..	18.1	0	11	18	0	0	0	0	0	0	0	2	26	1	2	0
Kerala																													
Kozhikode	0530	5	1008.0	1007.5	..	24.5	23.9	23.6	29.3	94	..	7.6	..	7.1	0	2	24	2	4	0	0	1	2	8	9	5	0	0	
	0830	"	1009.1	1008.6	-1.0	25.0	24.3	24.0	29.9	95	+4	7.5	+0.9	7.0	0	1	24	3	3	1	1	1	4	6	6	6	0	0	
	1130	"	1009.4	1008.9	..	27.0	25.2	24.4	30.7	86	..	7.1	..	8.1	0	0	31	0	1	1	0	1	7	11	10	0	0	0	
	1730	"</																											

TABLE III.—SUMMARY OF OBSERVATIONS AT FIXED HOURS—AUGUST, 1958 (SRAVANA 10—BHADRA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas)		Wind speed (kms.p.h.) [*]		No. of observations												
			At mean sea level or height in g.p.m. of nearest standard isobaric level			At station level							Dry bulb	Wet bulb	Departure from normal	Mean amount	Departure from normal	Wind speed	Wind speed	N	NE	E	SE	S	SW	W	NW	Calm	Variable
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
Kerala—Contd. Trivandrum . . .	0230	64	1007.9	1000.6	..	24.1	23.5	23.2	28.5	95	..	7.3	..	7.3	0	0	31	6	0	0	0	0	1	3	21	0	0		
	0530	"	1007.8	1000.5	..	23.9	23.3	22.9	28.2	95	..	6.9	..	9.2	0	1	29	5	0	0	0	0	1	5	19	1	0		
	0830	"	1009.4	1002.1	-1.5	24.9	23.8	23.2	28.5	91	+5	6.7	+0.4	8.0	0	1	30	4	0	0	0	0	1	2	22	0	0		
	1130	"	1009.3	1002.0	..	26.6	24.4	23.4	28.7	83	..	6.9	..	15.7	0	6	25	1	0	0	0	0	0	2	7	21	0	0	
	1730	"	1007.1	999.8	..	26.5	24.3	23.3	28.3	82	..	6.6	..	14.0	0	4	27	0	0	0	0	0	0	0	4	27	0	0	
	2330	"	1009.4	1002.1	..	24.4	23.6	23.2	28.5	94	..	6.7	..	9.0	0	1	30	4	0	0	0	0	0	2	4	21	0	0	
Trivandrum (Aerodrome)	0830	8	1009.4	1008.5	..	25.4	24.0	23.4	28.7	89	..	7.2	..	8.6	0	0	31	7	0	0	0	0	0	4	20	0	0	0	
Arabian Sea Islands Minicoy*	0530	2																											
	0830	"																											
	1130	"																											
	1730	"																											
	2330	"																											
Amini Divi*	0830	4																											
Hill Stations exclud- ing Kashmir																													
Walong . . . (R)	0830																												
	1730																												
Kohima . . .	0830	1406	1507.0	860.1	..	22.2	19.7	19.2	21.1	89	..	7.3	..	2.0	0	0	29	8	1	5	1	0	2	0	1	2	0		
	1730	"	1483.0	857.8	..	23.2	21.3	20.7	24.0	86	..	7.6	..	1.5	0	0	25	2	3	0	0	0	1	0	19	6	0		
Aijal . . .	0830	"	..	..	..	21.0	20.0	19.9	22.7	92	..	7.4	..	5.1	0	0	28	0	1	6	3	10	4	4	0	3	0	
	1730	"	..	..	..	22.5	21.6	21.1	25.1	90	..	6.8	..	6.0	0	0	30	0	1	1	2	4	7	15	0	1	0	
Shillong . . .	0830	1500	1465.8	846.9	+1.1	21.1	19.2	18.2	21.8	84	+3	7.3	+0.7	1.2	0	0	8	0	0	0	0	0	1	6	1	0	23	0	
	1730	"	1439.7	844.3	..	21.4	19.1	17.5	20.6	81	..	7.4	..	1.0	0	0	6	0	0	0	0	0	1	4	1	0	25	0	
Cherrapunji . . .	0830	1313	1468.9	866.0	+1.5	19.8	19.3	18.9	22.2	95	+6	7.5	+0.4	5.2	0	0	31	0	1	0	4	0	26	0	0	0	0	0	
	1730	"	1445.1	863.2	..	20.4	19.9	19.4	23.1	95	..	2.3	..	5.4	0	0	31	0	1	0	4	0	0	1	2	0	27	0	
Darjiling (Raj- Bhawan). . .	0830	2127	1484.9	789.3	+3.2	17.2	17.2	16.8	19.7	94	+10	7.7	+0.7	0.5	0	0	4	0	1	0	0	0	1	2	0	0	24	0	
	1730	"	1462.9	787.1	..	17.1	16.8	16.6	18.9	92	..	7.4	..	0.9	0	0	7	0	0	0	0	0	0	4	3	0	0	24	0
Kalimpong . . .	0830	1209	1487.1	878.0	+3.6	21.0	19.4	18.8	21.8	86	-5	3.0	-3.5	2.8	0	0	29	0	0	0	0	0	1	0	0	0	28	2	0
	1730	"	1481.9	877.1	..	21.3	19.8	19.3	22.3	87	..	3.0	..	2.8	0	0	29	0	0	0	0	0	0	1	2	0	0	2	0
Katmandu . . . (Hydromet)	0830	1324	1456.8	863.2	..	22.5	20.4	19.3	22.6	82	..	6.7	..	0.4	0	0	4	1	0	1	0	1	0	0	1	27	0		
	1130	"	1453.3	862.8	..	25.3	21.5	19.6	22.9	71	..	6.3	..	1.5	0	0	15	3	2	2	2	2	1	0	0	1	22	0	
	1730	"	1431.7	860.7	..	23.4	21.3	20.3	23.8	83	..	6.8	..	1.3	0	0	9	5	0	2	0	0	1	0	0	1	16	0	
Mukteswar (Kumaon)	0830	2311	3113.4	770.0	+0.6	16.0	15.4	15.1	17.3	95	+4	7.3	+0.7	8.6	0	3	20	0	5	6	2	3	1	3	3	8	0		
	1730	"	3097.7	768.0	..	18.2	17.3	16.9	19.5	92	..	6.1	..	8.5	0	1	23	0	0	2	2	2	2	6	8	4	7	0	
Nainital . . .	0830	1953	1441.8	801.2	..	18.0	16.7	15.8	17.7	88	..	7.1	..	8.0	0	0	27	1	1	11	10	0	0	2	2	4	0	0	
	1730	"	1417.6	799.2	..	19.2	17.8	17.2	19.8	88	..	6.2	..	7.2	0	0	30	1	1	9	10	2	2	3	2	1	0	0	
Josimath . . .	0830	"	..	..	..	19.3	18.1	17.4	19.8	87	..	6.2	..	4.5	0	0	28	5	3	5	1	0	0	1	3	3	10	
	1730	"	..	..	..	21.7	18.7	17.1	19.5	76	..	6.9	..	3.9	0	0	28	0	1	6	0	1	1	9	2	3	8	
Badrinath . . .	0830	"	..	..	..	11.2	10.5	10.0	12.4	94	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lokpal . . .	0830	"	..	..	..	5.8	5.3	5.0	8.7	93	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mussooree . . .	0830	2042	1438.3	792.7	-1.2	17.8	17.0	16.6	18.8	93	-2	6.0	-1.0	1.9	0	0	18	2	1	0	2	7	5	0	1	13	0		
	1730	"	1417.6	791.0	..	18.5	18.1	17.8	20.0	96	..	7.6	..	2.0	0	0	20	1	0	0	0	3	10	6	0	0	11	0	
Simla . . .	0830	2202	1443.8	778.7	+0.4	17.6	15.9	14.8	17.2	85	-1	5.5	-1.1	2.5	0	0	26	3	5	2	1	7	2	1	5	5	0	0	
	1730	"	1424.2	777.1	..	18.5	17.0	16.3	18.4	84	..	6.3	..	2.8	0	0	29	5	3	2	1	3	8	1	6	2	0	0	
Dalhousie . . .	0830	1959	1404.7	797.4	..	18.4	16.8	15.8	17.9	86	..	1.7	..	0.6	0	0	3	0	3	0	0	0	0	0	0	0	0	28	0
	1730	"	1386.7	796.0	..	20.5	18.3	17.9	20.7	86	..	1.7	..	0.6	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0
Dharamshala . . .	0830	1211	1484.4	877.1	..	23.2	20.8	19.8	22.8	81	..	4.9	..	5.4	..	3.0	0	0	31	5	1	3	0	7	6	8	1	0	0
	1730	"	1466.4	875.5	..																								

TABLE III.—SUMMARY OF OBSERVATIONS AT FIXED HOURS—AUGUST, 1958 (SRAVANA 10—BHADRA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas)		Wind speed (kms.p.h.)	No. of observations														
			At mean sea level or height in 8 p.m. of nearest standard isobaric level			At station level						Dry bulb	Wet bulb	Dew point	Mean amount	Departure from normal	Mean wind speed, kms. per hour	Wind direction											
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
Hill Stations excluding Kashmir—Contd. Kodaikanal—Contd.	1130	2343	3139.9	679.7	..	16.3	14.2	12.8	14.7	80	..	7.4	..	8.5	0	3	24	0	1	0	2	0	1	1	22	4	0		
	1730	"	3114.4	767.9	..	14.0	13.2	12.7	14.5	92	..	7.7	..	7.7	0	0	24	1	0	0	1	2	0	5	15	7	0		
Ootacamund	2330	"	3129.1	769.6	..	12.6	12.0	12.0	13.5	94	..	7.5	..	11.2	0	4	19	3	0	0	0	0	0	0	6	14	8	0	
Ootacamund	0830	2249	1486.9	777.6	-0.4	13.4	12.6	12.1	14.1	92	+5	6.0	-0.6	6.7	0	1	19	0	0	0	0	0	0	1	14	15	11	0	
Coonoor	1730	"	1466.4	776.2	..	14.5	13.5	13.1	14.9	91	..	7.1	..	4.3	0	0	17	0	0	0	0	0	0	3	9	5	14	0	
Coonoor	0830	1747	1488.2	825.2	..	18.7	15.7	13.7	15.8	75	+6	5.8	+0.3	7.3	0	0	31	1	0	0	11	5	6	1	7	0	0		
Sikkim																													
Lachen*	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tibet																													
Yatung (Chumbi)	0830	..	..	..	..	..	13.6	12.4	11.6	13.7	88	+2	7.4	+3.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lhasa	0830	3685	3099.7	653.8	..	14.1	11.7	10.1	12.1	77	..	5.3	..	3.3	0	0	26	1	2	3	6	0	1	3	10	5	0		
Ceylon																													
Colombo	0830	7	1009.7	1008.9	-0.9	26.7	24.5	23.5	28.9	79	-5	6.5	+0.6	12.4	0	0	31	0	0	0	0	0	1	16	12	1	0	1	
	1730	"	1007.5	1006.6	..	27.3	24.1	22.5	27.3	77	..	6.8	..	13.9	0	0	31	0	0	0	0	0	1	18	11	1	0	0	
Trincomalee	0830	3	1007.7	1007.3	-0.2	27.1	24.3	22.4	28.2	75	-2	4.9	+0.9	19.3	0	17	13	0	0	0	0	0	0	30	0	0	1	0	
	1730	"	1005.3	1004.9	..	29.9	24.7	22.3	26.9	65	..	5.0	..	18.1	0	10	20	1	0	2	2	1	21	2	1	1	0		
Batticaloa	0830	3	1005.9	1005.6	..	27.4	24.6	23.2	28.5	79	..	4.7	..	8.3	0	0	29	1	0	0	4	3	9	6	6	2	0		
	1730	"	1003.3	1003.0	..	29.0	25.7	23.9	30.0	75	..	5.7	..	14.4	0	4	26	0	2	9	9	5	1	2	2	1	0		
Hambantota	0830	15	1008.9	1007.2	-0.3	26.7	24.4	23.2	28.8	82	-3	4.9	+1.1	21.5	0	21	10	0	0	1	0	0	29	1	1	0	0		
	1730	"	1006.5	1004.7	..	27.7	24.2	22.6	27.2	75	..	6.2	..	27.4	0	24	7	0	0	0	0	0	0	29	1	1	0	0	
Mannar	0830	4	1007.9	1007.6	..	27.9	24.7	24.3	29.1	82	..	6.3	..	13.7	0	0	30	0	0	0	0	3	7	20	0	0	1	0	
	1730	"	1005.4	1004.9	..	28.2	25.4	24.1	30.4	80	..	6.5	..	15.5	0	3	28	0	0	1	0	6	24	0	0	0	0	0	
Hydrometeorological Observatories, Damodar Catchment																													
Bokaro	0830	242	1002.9	976.0	..	28.0	25.5	24.4	30.6	81	..	7.1	..	7.6	0	2	27	0	1	8	7	1	6	3	0	2	3		
	1730	"	999.4	972.8	..	29.0	25.7	24.1	30.2	76	..	7.2	..	8.0	0	0	30	0	0	14	7	2	1	1	1	3			
Hazaribagh	0830	615	1002.3	935.0	..	25.3	23.2	22.0	27.7	83	..	6.2	..	5.5	0	0	26	0	0	7	6	3	3	5	2	5	0		
	1730	"	998.8	932.0	..	26.3	22.9	21.1	25.4	74	..	5.8	..	15.3	0	2	28	0	1	5	10	1	6	3	4	1	0		
Tilaiya	0830	..	..	..	..	..	27.2	24.8	24.1	29.3	84	..	6.7	..	8.6	0	2	27	0	0	11	2	0	1	7	2	2	6
	1730	..	..	..	..	..	28.2	25.5	24.3	30.5	80	..	7.0	..	9.5	0	1	27	3	1	7	6	1	0	6	2	3	2
Ramgarh	0830	..	..	..	..	..	27.8	25.4	24.5	30.5	82	..	6.0	..	3.1	0	0	21	0	7	4	2	1	3	3	1	10	0
	1730	..	..	..	..	..	28.2	25.7	24.5	31.0	78	..	6.6	..	2.9	0	0	19	1	3	8	2	0	3	0	2	12	0
Panchet Hills	0830	..	..	..	..	..	28.6	26.1	25.0	31.9	81	..	7.3	..	3.6	0	0	31	0	5	3	8	3	11	0	1	0	0
	1730	..	..	..	..	..	29.2	26.1	24.8	31.3	77	..	7.2	..	3.4	0	0	31	2	1	9	9	0	9	0	1	0	0
Durgapur	0830	..	..	..	..	..	28.9	26.4	25.3	32.4	81	..	5.2	..	18.1	0	8	23	0	0	2	5	19	3	1	1	0	0
	1730	..	..	..	..	..	29.2	26.5	25.4	32.4	81	..	4.7	..	15.2	0	8	23	0	1	1	4	21	2	0	2	0	0
Mahanadi Catchment																													
Baramul	0830	64	1003.2	996.2	..	27.8	26.1	25.5	32.5	87	..	6.4	..	2.2	0	0	11	0	3	0	1	0	6	1	0	20	0		
	1730	"	1000.3	992.9	..	28.1	26.5	25.8	33.3	87	..	7.0	..	1.7	0	0	7	0	0	0	0	0	4	2	1	24	0		
Hirakud	0830	159	1003.0	985.3	..	27.9	26.0	25.2	32.1	85	..	6.5	..	5.0	0	0	30	0	2	4	3	14	4	1	2	1	0		
	1730	"	999.5	981.9	..	29.3	26.9	25.9	33.5	83	..	6.6	..	4.4	0	0	28	0	1	2	3	11	4	6	1	3	0		
Khijrawan	0830	..	..	..	..	..	26.2	24.3	23.3	28.8	85	..	5.5	..	7.2	0	0	27	1	0	2	3	5	7	7	1	4	1
	1730	..	..	..	..	..	27.6	24.9	23.6	29.3	80	..	6.2	..	7.9	0	1	26	3	5	1	0	6	6	3	2	4	1
Sonepur	0830	28.8	26.0	24.4	31.4	78	4.3	0	0	14	0	2	5	0	1	6	6	0	0	9	0
Ginabahar	0830	..	..	..</td																								

TABLE III.—SUMMARY OF OBSERVATIONS AT FIXED HOURS—AUGUST, 1958 (SRAVANA 10—BHADRA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.			Mean pressure in millibars												Mean temperature in °C												No. of observations																							
	1	2	3	Height of barometer easter above mean sea level in metres			At mean sea level or height in g.p.m. of nearest standard isobaric			At station level			Departure from normal			Dry bulb			Wet bulb			Dew point			Vapour pressure in mbs.			Relative humidity %			Departure from normal			Cloud amount (Oktas)			Wind speed (kms.p.h.)			Wind direction											
				4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	N	NE	E	SE	S	SW	W	NW	Calm	Variable													
Hydrometeorological Observatories—Contd.																																																			
Ganga Catchment Mukhim . . .	0830	20.1	18.2	17.3	19.6	83	..	6.3								
Tehri . . .	0830	19.9	15.1	11.9	14.2	60	..	5.9								
Gandak Catchment Gorkha . . .	0830	25.3	23.4	22.6	27.3	85	..	5.7									
Pokhara . . .	0830	29.3	24.4	22.2	27.0	67	..	5.6								
Nawakot . . .	0830	20.1	24.3	21.7	26.1	62	..	5.0								
Jomosom . . .	0830	22.1	21.5	21.2	25.2	95								
Timure . . .	0830	23.9	22.4	21.7	26.2	88								
Gogra Catchment (Trans Himalayan Region) Dailekh . . .	0830	24.1	22.7	21.4	26.7	89								
Gogra Catchment Dandeldhura . . .	0830	19.7	18.4	17.6	20.2	88								
Sallyana . . (R)	0830	21.4	18.7	17.2	19.7	77								
Butwal . . .	0830	27.6	25.7	24.9	31.5	85								
Bagmati Catchment Katmandu† . . .	0830	1324	27.8	26.3	25.9	33.0	88								
Kosi Catchment Chautara . . .	0830	20.4	19.9	19.4	22.8	95								
Okhaldunga . . .	0830	19.5	18.5	18.1	20.6	93	..	7.5								
Barahkshetra . . .	0830	146	1003.6	987.5	26.1	25.0	24.5	30.8	92	..	6.8								
Angbung . . .	0830	28.0	25.8	24.9	31.3	84	..	7.2							
Taplejung . . .	0830	27.1	25.8	25.1	32.2	90	..	6.8							
Taplethok . . .	0830	20.7	19.7	19.2	22.2	91							
Wallungchung Gola*	0830	13.0	12.1	11.5	13.5	90							
Bhojpur . . .	0830	20.2	19.4	19.3	22.1	93							
Chainpur . . .	0830	19.4	19.1	18.8	22.1	97							
Tista Catchment Gangtok . . .	0830	1812	1464.0	816.5	18.2	17.8	17.6	20.1	97	..	7.4						
Geyzing . . .	0830	19.5	18.7	18.3	21.0	93	..	7.1						
	1730	18.4	17.8	17.5	20.0	95	..	7.4						
	1730	19.9	19.5	23.0	95					
	1730	19.3	19.5	22.9	95					

(R) Registry not received,

*Observations for 30 days.

†Date included under "Hill Stations"

MONTHLY MEANS OF UPPER WINDS
AUGUST, 1958 (SRAVANA 10—BHADRA 9, 1880 SAKA)

During the month, observations of velocity and direction of upper winds were made at 55 stations in India. Out of these, at 43 stations all the observations were taken by means of pilot balloons and at 12 stations some observations were made by means of pilot balloons while the other observations by the radiowind method. Particulars of the stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the table overleaf. All radiowind ascents have been indicated by means of an asterisk (*) against the scheduled hours.

Data from ascents made at the scheduled time or within two hours on either side of the scheduled times of regular observations have been used for averaging.

Data up to 9.0 km. a.m.s.l. are given under Table IV and data above 9.0 km. a.m.s.l. under Table V.

In Tables IV and V :

n—represents the number of observations ;

V—represents the mean wind speed in knots irrespective of direction ;

v—represents the resultant mean velocity in knots ;

D—represents the direction of the resultant mean wind in degrees East of North.

Mean and resultant winds are given in this publication for the following heights :

Surface, 0.15 km.a.g., 0.3, 0.6, 0.9, 1.5, 2.1, 3.0, 3.6, 4.5, 5.4, 6.0, 7.2, 9.0, 10.5, 12.0, 14.1, 16.2, 18.0, 21.0, 24.0, 27.0, 30.0, 33.0 and 36.0 km. a.m.s.l. Of these, the levels 1.5, 3.0, 5.4, 7.2, 9.0, 12.0, 14.1 and 16.2 km. a.m.s.l. are considered as the best approximations to the standard pressure levels 850, 700, 500, 400, 300, 200, 150 and 100 mb respectively.

PARTICULARS OF PILOT BALLOON AND RAWIN STATIONS INDIA

425

No.	Station	Lat. N.	Long. E	Height of Anemometer head a.m.s.l. in metres	Date of opening	Approximate times of flight (IST)		
1.	Agartala	23°53'	91°15'	17	28th Nov. 1951	0530	1730	2330
2.	Ahmedabad	23°04'	72°38'	61	19th May 1928	0530	1730	2330
3.	Amausi	26°45'	80°53'	132	20th Nov. 1950	0530	1730	2330
4.	Ambala	30°23'	76°46'	279	1st Apr. 1941	0530	1730	2330
5.	Amritsar	31°38'	74°52'	243	21st Jun. 1957	0530*	1730*	
6.	Anantapur	14°41'	77°37'	364	12th Feb. 1946	0530	1730	2330
7.	Asansol	23°41'	86°59'	135	29th May 1942	0530	1730	2330
8.	Baghdogra	26°38'	88°19'	140	7th Jun. 1953	0530	1730	2330
9.	Bairagarh	23°17'	77°21'	532	26th Feb. 1943	0530	1730	2330
10.	Bamrauli	25°27'	81°44'	103	28th Feb. 1930	0530*	1130	1730* 2330
11.	Bangalore	12°58'	77°35'	936	19th May 1915	0530	1730	2330
12.	Barcilly	28°22'	79°24'	180	12th Jan. 1943	0530	1730	
13.	Begumpet	17°27'	78°28'	543	1st Sep. 1929	0530	1730	2330
14.	Bhagalpur	25°14'	86°57'	61	29th May 1950	0530	1730	2330
15.	Bhubaneshwar	20°15'	85°50'	55	5th Dec. 1942	0530	1730	2330
16.	Bhuj	23°15'	69°48'	111	14th Sep. 1937	0530	1730	2330
17.	Bikaner	28°00'	73°18'	229	18th Oct. 1946	0530	1730	2330
18.	Chikalthana	19°51'	75°24'	583	7th Oct. 1951	0530	1730	2330
19.	Cochin†	09°56'	76°14'	3	16th Mar. 1942	0530	1730	2330
20.	Darjeeling	27°03'	88°16'	2115	21st May 1956	0530	1730	
21.	Dum Dum	22°39'	88°27'	13	14th May 1921	0530*	1130	1730* 2330
22.	Gadag	15°25'	75°38'	650	3rd May 1943	0530	1730	2330
23.	Gannavaram	16°32'	80°48'	34	8th Apr. 1942	0530	1730	2330
24.	Gauhati	26°05'	91°43'	51	12th Mar. 1955	0530*	1730	1130* 2330
25.	Gaya	24°45'	84°57'	119	19th Mar. 1937	0530	1730	2330
26.	Gopalpur	19°16'	84°53'	24	15th Feb. 1946	0530	1730	2330
27.	Gorakhpur	26°45'	83°22'	83	5th Jan. 1943	0530	1730	
28.	Gwalior	26°14'	78°15'	208	7th May 1938	0530	1730	2330
29.	Imphal	24°51'	93°58'	805	8th Mar. 1952	0530	1730	2330
30.	Jabalpur	23°10'	79°57'	402	30th Jul. 1928	0530	1730	2330
31.	Jagadalpur	19°05'	82°02'	562	25th Mar. 1948	0530	1730	2330
32.	Jaipur	26°49'	75°48'	404	6th Jun. 1953	0530	1730	
33.	Jamshedpur	22°49'	86°11'	147	23rd Jul. 1942	0530	1730	
34.	Jharsuguda	21°55'	84°05'	240	1st May 1944	0530	1730	2330
35.	Jodhpur	26°18'	73°01'	229	15th Oct. 1934	0530*	1130	1730* 2330
36.	Madras	13°00'	80°11'	29	8th Apr. 1926	0530*	1130	1730* 2330
37.	Mangalore	12°52'	74°51'	40	4th Jun. 1928	0530	1730	2330
38.	Minicoy	08°18'	73°00'	16	14th Apr. 1941	0530	1730	2330
39.	Mohanbari	27°29'	95°01'	112	1st Jun. 1948	0530	1730	2330
40.	Mussoorie	30°27'	78°05'	2050	3rd Nov. 1955	0530	1730	
41.	Nagpur	21°06'	79°03'	316	23rd Apr. 1943	0530*	1130	1730* 2330
42.	Nanpara	27°50'	81°30'	142	23rd Apr. 1957	0530	1730	
43.	New Delhi	28°35'	77°12'	227	20th Oct. 1936	0530*	1130	1730* 2330
44.	Poona	18°32'	73°51'	593	5th Jan. 1925	0530	1730	2330
45.	Port Blair	11°40'	92°43'	93	29th Oct. 1945	0530*	1130	1730* 2330
46.	Raipur	21°14'	81°39'	308	15th Jul. 1944	0530	1730	2330
47.	Raxaul	26°59'	84°51'	83	28th Oct. 1957	0530	1730	
48.	Santa Cruz	19°07'	72°51'	14	14th May 1933	0530*	1130	1730* 2330
49.	Tezpur	26°37'	92°47'	79	12th Aug. 1932	0530	1730	2330
50.	Tiruchirapalli	10°46'	78°43'	96	22nd Jun. 1936	0530	1730	2330
51.	Trivandrum	08°29'	76°57'	73	8th Dec. 1928	0530*	1130	1730* 2330
52.	Udaipur	24°35'	73°42'	587	24th Jun. 1947	0530	1730	2330
53.	Vengurla	15°52'	73°38'	8	22nd Nov. 1941	0530	1730	2330
54.	Veraval	20°54'	70°22'	17	13th Oct. 1941	0530*	1130	1730* 2330
55.	Visakhapatnam	17°43'	83°14'	10	24th Sep. 1928	0530	1730	2330

*Radiowind ascents.

†Naval Meteorological Office.

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km, above mean sea level

August, 1958 (Sravana 10—Bhadra 9, 1880 Saka)

Station	AGARTALA								AHMEDABAD															
	0530				1730				2330				0530				1730				2330			
Time in I. S. T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	4·6	4·0	137	31	4·8	3·8	159	31	4·5	4·3	143	31	3·1	2·4	243	31	4·2	1·9	232	31	4·7	3·8	233
0·15 a. g.	27	11·6	10·3	156	30	9·6	8·3	179	26	13·8	12·8	170	31	10·2	8·7	251	31	8·1	3·9	238	30	11·9	9·1	218
0·3 a. m. s. l.	27	14·8	13·6	184	27	11·9	11·1	184	26	15·5	14·5	184	31	12·4	10·5	260	31	7·6	4·3	233	30	12·9	10·5	220
0·6 ,,	27	15·8	14·7	184	27	13·8	13·4	187	26	17·2	16·3	192	30	13·0	11·6	271	31	8·7	4·9	248	30	13·5	11·6	236
0·9 ,,	25	15·2	13·5	192	26	14·5	13·2	187	25	16·2	15·3	197	28	11·9	10·6	274	31	9·6	5·3	267	29	12·2	10·0	249
1·5 ,,	21	14·6	12·0	192	24	14·2	12·2	184	24	13·7	12·6	194	23	9·9	5·5	249	29	11·4	7·0	273	20	8·3	3·5	338
2·1 ,,	18	13·1	10·1	199	23	13·5	10·3	185	21	12·8	11·2	195	15	10·5	4·0	180	24	11·4	6·7	271	19	8·9	5·9	036
3·0 ,,	15	11·8	7·7	202	18	12·6	7·6	186	18	11·0	7·9	203	6	8·0	4·7	096	14	7·9	1·8	269	11	11·7	9·8	054
3·6 ,,	14	11·7	6·6	198	18	12·3	5·9	187	13	9·7	7·2	228	4	7·5	5·4	077	9	6·1	1·3	341	5	10·4	6·2	075
4·5 ,,	12	10·0	6·6	191	17	11·1	3·1	193	5	11·0	9·6	269	2	6·0	5·9	103	5	5·8	5·1	118				
5·4 ,,	7	9·7	6·9	183	14	9·4	3·8	165	3	19·3	15·5	271	2	5·5	5·1	036	3	10·3	9·9	130				
6·0 ,,	6	6·5	3·5	148	10	8·9	4·3	172	2	8·0	6·4	172	1	6·0	6·0	060	2	9·5	5·6	130				
7·2 ,,	6	6·8	2·9	132	6	6·7	2·6	115	2	10·5	9·7	092												
9·0 ,,	4	10·0	8·5	105	2	12·0	12·0	064																
Station	AMAUSSI								AMBALA															
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·9	1·1	115	31	3·7	0·8	150	31	2·9	1·3	129	31	3·9	3·2	112	31	3·0	0·3	128	31	4·2	3·0	125
0·15 a. g.	24	9·8	4·4	120	28	6·9	0·4	210	29	9·2	4·8	143	30	11·1	9·6	124	30	7·7	0·3	270	31	12·3	7·4	123
0·3 a. m. s. l.	24	10·5	5·0	125	28	6·9	0·5	170	29	9·2	4·5	142	30	6·1	5·3	109	30	5·0	0·4	177	31	6·7	4·2	128
0·6 ,,	21	12·8	4·2	138	28	8·0	0·3	335	29	10·2	4·8	155	30	10·8	8·7	139	30	9·6	0·9	329	31	11·5	7·1	129
0·9 ,,	20	13·6	1·9	146	24	9·0	0·7	248	29	10·2	3·9	167	26	8·8	5·8	154	30	11·1	1·1	319	31	9·5	5·1	131
1·5 ,,	14	13·0	1·4	129	22	10·4	2·2	275	26	9·2	2·2	160	22	6·9	0·1	271	27	11·3	5·3	330	31	10·1	0·9	169
2·1 ,,	11	8·8	2·8	258	17	10·5	3·0	302	18	9·0	0·8	220	19	9·3	4·6	328	24	12·7	7·4	329	28	10·5	4·1	300
3·0 ,,	5	7·4	1·8	222	12	10·6	8·6	299	9	8·3	3·0	105	16	12·0	5·6	325	20	10·8	8·2	318	24	8·8	4·1	313
3·6 ,,	3	9·6	1·8	273	5	11·2	9·5	282	3	6·7	5·0	287	12	11·8	5·0	327	17	9·2	6·3	324	13	7·0	2·4	295
4·5 ,,	1	9·0	9·0	175	4	17·5	11·7	280					10	8·1	2·7	296	12	9·7	5·2	313	7	6·6	3·4	250
5·4 ,,					1	13·0	13·0	260					9	9·9	8·4	233	10	9·4	5·6	310	6	6·8	4·3	266
6·0 ,,													9	12·2	10·5	241	10	13·9	11·2	286	6	6·7	4·7	262
7·2 ,,													5	19·8	19·7	236	7	23·7	22·9	264	1	8·0	8·0	255
9·0 ,,													3	23·3	23·0	243	7	33·7	32·6	254				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

August 1958 (Gravana 10—Bhandra e. nbo Saha).

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

August 1958 (Sravana 10—Bhadra 9, 1880 Saka)

Station	BAIRAGARH								BAMRAULI															
	1730				2330				0530*				1130				1730*				2330			
Time in I. S. T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
	Ht. in Km.																							
Surface .	31	5·7	2·2	271	31	4·2	1·9	226	31	3·7	0·8	108	31	4·0	1·1	261	31	4·5	0·7	250	31	3·4	0·6	133
0·15 a. g. .	27	9·2	3·6	274	28	9·6	5·9	232	28	9·1	2·2	228	27	7·7	1·2	254	30	7·8	1·5	300	28	10·4	3·4	152
0·3 a. m. s. l. .									28	9·3	2·4	233	27	7·3	0·4	260	30	7·8	1·5	300	28	10·8	3·3	152
0·6 „ .	27	8·8	3·3	273	28	8·3	5·4	224	28	10·4	3·1	237	27	8·2	1·2	260	30	8·4	0·7	268	28	12·4	3·3	153
0·9 „ .	27	11·5	3·8	302	27	9·9	3·7	254	28	10·8	3·3	247	26	10·0	1·2	284	30	10·0	2·2	274	24	10·0	3·2	214
1·5 „ .	25	11·5	4·6	311	24	10·9	2·8	261	28	10·6	3·8	263	20	13·1	1·5	079	30	11·0	2·9	248	21	9·7	2·4	213
2·1 „ .	16	11·9	4·9	300	18	9·9	3·2	278	27	9·7	1·8	296	11	12·1	4·4	301	30	10·5	3·0	247	14	7·1	5·1	252
3·0 „ .	9	8·4	4·4	302	11	10·5	2·5	350	27	8·2	0·5	343	5	7·6	6·1	281	30	10·5	1·9	262	13	6·7	4·4	246
3·6 „ .	7	8·7	4·6	301	4	12·3	5·3	044	27	7·3	0·8	252	2	5·0	5·0	276	30	9·9	0·6	154	3	5·3	4·1	146
4·5 „ .	3	5·7	1·8	305					27	7·5	0·4	206					29	8·5	0·3	135				
5·4 „ .	1	3·0	3·0	125					27	7·4	2·7	134					28	8·6	1·2	124				
6·0 „ .	1	2·0	2·0	131					27	7·2	3·1	120					28	8·7	1·7	124				
7·2 „ .	1	8·0	8·0	115					26	8·1	6·1	122					25	7·4	3·4	142				
9·0 „ .									21	9·8	8·3	110					20	9·9	6·7	093				

Station	BANGALORE								BAREILLY								BEGUMPET							
	0530				1730				2330				0530				1730				0530			
Time in I. S. T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	7·6	7·2	263	31	8·9	8·0	267	31	7·7	7·1	265	31	4·0	2·3	076	31	3·0	0·6	068	31	6·1	5·6	272
0·15 a. g. .	14	13·6	12·5	263	29	13·0	12·4	265	28	14·9	14·1	258	29	9·6	5·7	094	31	5·5	1·0	089	24	13·3	10·6	265
0·3 a. m. s. l. .													29	8·7	5·1	089	31	5·3	0·8	083				
0·6 „ .													22	10·1	4·0	128	31	7·0	1·4	090	25	10·1	8·3	267
0·9 „ .													20	10·5	2·4	147	30	8·8	1·1	085	24	17·6	14·3	279
1·5 „ .	12	17·7	16·5	284	29	17·4	16·7	272	28	21·5	20·3	273	18	9·7	0·8	237	22	10·7	2·0	322	20	17·3	13·9	284
2·1 „ .	8	14·3	11·7	283	23	17·0	15·4	281	15	18·0	15·4	278	16	11·7	3·3	339	18	11·3	3·2	331	16	12·5	9·3	270
3·0 „ .	6	13·5	4·0	277	16	17·5	14·9	286	11	11·7	7·1	269	12	12·4	5·7	343	18	10·8	4·3	328	12	10·4	6·1	280
3·6 „ .	5	12·6	4·7	136	10	11·6	6·5	245	8	11·5	7·5	274	11	12·1	4·8	339	18	10·5	4·9	314	8	8·3	3·6	189
4·5 „ .	3	9·7	7·1	098	5	10·6	5·3	165	2	12·0	12·0	289	9	7·7	2·3	237	14	8·9	4·2	301	8	12·4	6·5	164
5·4 „ .	2	9·5	7·5	111	3	12·7	12·4	126					7	8·9	4·5	214	11	8·3	6·6	284	5	11·2	9·9	120
6·0 „ .	2	10·0	8·3	107	3	14·0	14·0	112					6	8·2	5·2	244	8	12·9	10·9	261	3	12·0	8·6	110
7·2 „ .					2	13·5	13·5	100					4	8·7	5·1	230	6	14·3	13·6	251	1	16·0	16·0	205
9·0 „ .													3	7·3	6·3	201	4	22·7	22·1	255				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

August 1958 (Sravana 10—Bhadra 9, 1880 Saka)

Station	BEGUMPET								BHAGALPUR								BHUBANESHWAR								
	1730				2330				0530				1730				0530				1730				
Time in I. S. T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Ht. in Km.																									
Surface	31	6.8	5.1	271	31	7.7	6.3	268	31	2.3	1.5	125	31	2.9	1.6	120	31	4.0	1.5	242	31	9.9	6.9	171	
0.15 a. g.	28	10.9	7.4	269	24	13.4	8.1	251	27	10.1	6.9	159	29	8.4	5.3	120	31	12.6	2.5	258	31	12.8	9.0	174	
0.3 a. m. s. l.									27	11.1	7.8	170	29	9.4	5.4	123	31	12.5	5.8	214	31	13.0	9.4	173	
0.6 "	28	10.0	6.4	265	24	9.7	6.2	249	26	11.9	6.9	186	29	10.4	6.1	150	30	13.2	6.4	219	30	13.1	9.6	171	
0.9 "	28	12.3	9.3	271	22	15.8	10.3	261	23	11.2	5.5	184	29	10.6	6.4	168	29	15.7	5.4	209	22	11.3	7.5	165	
1.5 "	28	14.0	11.1	274	17	16.1	10.7	261	19	11.1	4.1	166	26	11.6	6.2	178	26	11.0	2.9	215	13	11.5	4.2	150	
2.1 "	22	14.7	10.8	275	15	13.7	10.0	259	16	11.7	3.7	158	20	12.1	5.3	169	22	11.1	1.5	232	8	10.7	1.5	097	
3.0 "	15	10.6	6.1	233	10	8.8	4.2	215	13	9.1	4.3	224	16	11.0	3.9	219	12	10.7	3.7	111	4	9.7	4.9	232	
3.6 "	13	11.0	5.9	230	2	4.0	4.0	242	12	8.4	4.1	212	12	8.7	2.9	199	9	9.9	2.9	155	3	8.7	7.5	240	
4.5 "	8	9.7	4.0	174	1	5.0	5.0	180	8	8.0	6.6	251	7	8.0	3.5	245	8	9.0	4.9	079					
5.4 "	5	11.4	10.7	113	1	6.0	6.0	115	7	6.0	3.4	266	6	9.5	6.2	236	7	12.9	9.1	095					
6.0 "	5	10.0	9.5	106	1	8.0	8.0	085	4	5.7	2.4	306	4	10.5	5.3	235	5	10.4	10.1	098					
7.2 "	2	18.0	18.0	104	1	6.0	6.0	075	3	7.7	2.2	215	1	4.0	4.0	240	3	12.7	12.2	105					
9.0 "	2	22.0	22.0	095					1	7.0	7.0	220					1	18.0	18.0	080					
Station	BHUBANESHWAR				BHUJ								BIKANER												
Time in I. S. T.	2330				0530				1730				2330				0530				1730				
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Surface	31	5.1	2.9	189	31	5.8	5.4	241	31	10.2	9.7	242	31	8.1	7.7	235	31	5.0	4.2	230	31	5.5	1.5	220	
0.15 a. g.	28	11.7	7.7	184	31	13.3	12.3	257	31	16.3	15.9	245	30	14.6	14.3	243	31	15.0	13.2	235	31	10.5	2.1	228	
0.3 a. s. l.	28	12.7	8.5	189	31	14.1	13.3	259	31	16.2	15.8	246	30	15.1	14.8	244	31	11.2	9.3	236	31	9.5	2.6	241	
0.6 "	27	13.5	8.5	190	31	17.7	17.1	260	31	16.1	15.6	250	30	17.5	17.1	246	31	18.9	17.3	248	31	10.6	3.4	254	
0.9 "	23	12.6	7.3	187	31	14.9	14.4	255	31	15.2	14.0	255	30	14.3	12.9	241	31	16.8	14.4	250	31	10.8	2.8	255	
1.5 "	20	12.1	5.8	182	23	11.6	8.7	218	29	9.5	6.4	262	29	11.6	5.7	196	30	8.8	3.8	266	31	11.6	4.1	261	
2.1 "	15	8.4	3.9	158	16	9.7	6.3	129	21	9.1	1.0	151	25	8.6	4.0	117	30	7.7	1.0	068	29	9.7	4.1	302	
3.0 "	12	7.8	4.8	160	13	8.4	5.3	053	16	9.3	1.6	048	25	8.4	5.7	043	26	8.0	5.5	031	23	8.1	6.5	006	
3.6 "	10	9.5	4.7	137	10	6.0	5.5	050	14	8.4	3.9	062	10	7.5	5.5	056	18	9.1	7.8	022	21	10.8	8.9	008	
4.5 "	6	6.7	4.4	203	4	7.0	2.9	102	12	8.5	3.7	072	6	4.7	2.3	040	6	9.0	8.0	025	16	11.6	8.9	002	
5.4 "	2	9.0	4.7	060	3	8.0	5.2	105	10	7.7	2.0	070	2	9.0	8.7	077	1	15.0	15.0	010	13	13.7	10.6	308	
6.0 "	2	9.5	6.2	068					8	9.7	1.5	190	1	3.0	3.0	030	1	6.0	6.0	025	10	14.0	8.5	296	
7.2 "	2	11.0	11.0	105					2	15.5	13.9	079	1	8.0	8.0	195					5	19.2	17.0	256	
9.0 "																				1	29.0	29.0	255		

TABLE IV--MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

August 1958 (Sravana 20—Bhadra 9, 164 Saka)

Station	BIKANER				CHIKALTHANA								COCHIN											
	2330				0530				1730				2330				0530				1730			
Time in I.S.T.	n	v	w	d	n	v	w	d	n	v	w	d	n	v	w	d	n	v	w	d	n	v	w	d
Ht. in Km.																								
Surface .	31	6.3	4.5	195	31	5.1	5.1	270	31	7.6	6.2	275	31	7.0	6.7	269	31	2.2	1.3	268	31	6.0	4.9	289
0.15 a. g. .	31	14.5	10.9	206	28	12.7	11.5	278	28	12.4	9.1	281	25	14.3	12.7	272	21	7.3	4.5	290	21	10.0	9.3	290
0.3 a. m. s. 1	31	10.5	7.4	191													21	13.0	11.7	295	21	14.9	14.2	293
0.6 „ .	31	15.6	11.5	210													21	19.4	18.5	296	21	19.9	19.0	293
0.9 „ .	31	14.8	10.3	215	28	14.7	12.9	282	28	13.8	11.2	285	24	16.2	14.0	284	21	21.7	20.9	300	21	21.4	20.9	298
1.5 „ .	31	11.4	5.0	244	24	13.4	9.7	281	24	14.4	11.7	279	21	17.3	13.8	283	19	22.5	21.5	301	19	22.9	22.4	301
2.1 „ .	30	7.8	2.2	304	20	10.6	5.9	260	20	11.9	8.0	259	19	13.2	8.3	278	16	20.2	19.1	298	11	20.5	19.9	298
3.0 „ .	24	9.5	7.3	012	10	8.1	2.9	221	11	10.5	6.8	229	11	10.2	4.9	304	10	17.4	15.5	292	6	19.3	18.3	292
3.6 „ .	18	10.1	8.5	010	5	9.0	5.0	196	5	10.8	3.8	220	3	6.7	6.5	287	9	17.4	15.0	293	4	14.3	13.0	280
4.5 „ .	3	12.3	9.0	010	3	5.3	2.8	115	3	8.3	6.9	317	2	5.5	3.9	263	3	6.0	2.2	269	2	8.0	7.4	047
5.4 „ .	1	9.0	9.0	070	1	3.0	3.0	345	1	8.0	8.0	285	1	16.0	16.0	095	1	9.0	9.2	145	1	17.0	17.0	105
6.0 „ .													1	18.0	18.0	095	1	8.0	8.0	100				
7.2 „ .																								
9.0 „ .																								
Station	COCHIN				DARJEELING								DUM DUM											
Time in I.S.T.	2330				0530				1730				0530*				1130				1730*			
Ht. in Km.	n	v	w	d	n	v	w	d	n	v	w	d	n	v	w	d	n	v	w	d	n	v	w	d
Surface .	31	3.1	1.9	297	31	1.2	0.4	308	31	2.7	1.1	277	31	3.5	2.0	201	31	5.4	4.1	154	31	4.9	3.9	176
0.15 a. g. .	10	10.1	8.7	291	2	5.0	4.9	052	1	7.0	7.0	095	30	11.1	8.1	176	31	10.8	8.0	168	31	11.4	9.2	180
0.3 a. m. s. 1	10	14.4	13.1	290									30	11.5	8.6	182	31	10.5	7.1	174	31	12.7	10.3	179
0.6 „ .	10	19.9	19.2	293									30	13.1	9.4	187	31	12.2	8.4	183	31	13.9	10.7	183
0.9 „ .	10	23.7	23.0	294									30	13.9	9.7	189	27	12.7	8.8	184	31	14.5	11.0	178
1.5 „ .	9	23.5	23.1	299									30	13.2	8.5	187	19	12.5	10.5	177	31	14.9	10.5	182
2.1 „ .	6	21.3	21.3	296									30	12.2	6.9	184	12	11.4	9.0	191	30	13.5	8.3	188
3.0 „ .					2	5.5	5.5	094	1	6.0	6.0	085	30	11.8	5.6	175	5	9.0	8.6	185	29	12.3	6.4	184
3.6 „ .					2	6.0	3.4	090	1	4.0	4.0	080	..	..	..	..	2	8.5	7.8	196	..	..	..	..
4.5 „ .					1	9.0	9.0	105					30	11.2	5.9	165	1	6.0	6.0	175	29	10.7	3.6	155
5.4 „ .					1	9.0	9.0	200					30	10.0	6.0	145	1	6.0	6.0	150	29	9.9	3.5	127
6.0 „ .					1	5.0	5.0	200					30	10.3	7.2	133	1	11.0	11.0	165	29	10.3	3.4	114
7.2 „ .					1	9.0	9.0	205					30	10.9	8.7	097	1	6.0	6.0	170	29	12.1	5.1	115
9.0 „ .					1	20.0	20.0	120					26	18.0	17.4	090	1	11.0	11.0	165	27	14.8	13.8	090

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

August 1953 (Sravana 10—Bhadra 9, 1880 Saka)

Station	DUM DUM				GADAG								GANNAVARAM											
	2330				0530				1730				2330				0530				1730			
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	3·8	3·1	162	31	8·0	7·5	256	31	10·8	10·3	267	31	8·9	8·5	264	31	3·8	2·8	252	31	4·4	2·8	276
0·15 a.g. .	31	12·2	10·5	177	31	16·9	16·5	259	30	22·2	20·8	255	30	18·9	18·5	260	27	11·9	8·1	256	27	8·7	4·3	254
0·3 a.m.s. 1	31	15·4	13·5	183													27	15·7	11·1	259	27	10·0	4·8	261
0·6 „ .	30	16·5	14·1	189													27	19·9	14·5	268	27	12·6	7·4	270
0·9 „ .	29	16·1	12·7	192	31	19·5	18·9	269	30	22·6	21·5	260	30	22·0	21·6	268	25	20·1	14·0	277	27	14·3	9·4	282
1·5 „ .	24	13·0	9·4	176	21	19·4	18·1	282	28	25·4	24·1	272	26	24·8	23·2	282	15	13·3	8·0	267	21	14·0	9·4	294
2·1 „ .	20	12·0	9·1	164	13	13·8	10·8	285	18	21·9	19·6	280	19	20·8	17·3	275	12	13·8	8·8	287	18	14·4	11·0	285
3·0 „ .	15	10·4	8·5	166	4	12·5	9·5	261	7	15·1	7·8	270	8	14·5	12·1	260	7	14·1	6·2	266	13	12·5	7·1	278
3·6 „ .					2	11·0	5·9	259	3	9·7	9·3	133	6	11·0	7·3	272	6	10·7	6·8	208	10	12·0	5·5	230
4·5 „ .									3	12·3	12·2	126	2	6·5	1·2	064	6	10·0	5·6	157	9	12·3	5·0	241
5·4 „ .									1	19·0	19·0	125	2	10·0	9·3	141	5	10·4	2·1	170	4	8·0	2·8	293
6·0 „ .													2	15·0	14·6	131	4	10·3	3·7	162	4	8·3	1·1	074
7·2 „ .													2	15·0	15·0	088	1	15·0	15·0	095	1	19·0	19·0	115
9·0 „ .													1	14·0	14·0	095	1	16·0	16·0	100				

Station	GANNAVARAM				GAUHATI								GAYA				2330				0530			
	2330				0530*				1130				1730*				2330				0530			
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	4·6	2·3	227	31	1·6	1·0	050	31	3·5	2·3	329	30	1·6	1·1	254	31	1·8	0·3	298	31	2·3	1·2	143
0·15 a.g. .	29	11·6	5·1	225	31	6·0	1·6	069	26	6·9	3·4	345	30	6·6	3·5	252	26	4·4	1·4	258	28	10·7	5·6	167
0·3 a.m.s. 1	29	14·0	6·4	241	31	5·8	0·3	033	26	7·0	2·3	343	30	6·6	4·1	258	26	4·8	2·1	290	28	11·3	6·3	127
0·6 „ .	29	16·0	9·1	262	31	6·6	1·7	253	25	8·2	1·1	300	30	8·3	6·8	265	24	7·0	5·0	283	28	12·9	6·9	200
0·9 „ .	28	16·0	10·2	270	31	7·7	3·7	241	23	8·7	2·5	226	30	10·1	8·6	265	23	9·2	6·7	255	28	12·2	5·2	202
1·5 „ .	27	17·0	11·6	284	31	13·5	10·5	237	20	13·4	7·6	214	30	12·8	10·3	249	19	12·8	10·9	245	25	12·0	2·8	195
2·1 „ .	20	12·7	7·3	273	31	15·6	13·7	239	14	15·2	10·7	220	30	14·6	12·0	240	11	16·2	15·6	249	20	11·8	2·6	140
3·0 „ .	17	10·5	3·7	232	31	16·7	14·8	240	7	12·4	11·1	248	30	13·8	11·4	239	3	16·6	16·3	245	15	9·1	1·8	095
3·6 „ .	8	7·9	2·4	175	31	14·5	12·5	239	3	9·7	8·6	258	30	11·9	9·3	239					11	7·5	1·5	175
4·5 „ .	5	8·6	6·6	145	31	13·1	10·4	241	2	20·0	20·0	193	30	11·8	7·6	249					8	9·0	2·8	170
5·4 „ .	2	7·5	6·9	140	30	11·4	8·1	240	1	34·0	34·0	235	28	11·5	6·5	251					6	8·3	2·6	105
6·0 „ .	2	9·0	8·2	120	29	10·6	5·2	235	1	18·1	18·0	230	27	12·1	6·1	248					5	7·4	4·4	063
7·2 „ .					26	12·1	2·7	250					26	10·3	2·5	239					2	8·0	7·5	117
9·0 „ .					19	10·1	5·5	057					13	10·8	3·7	011					1	4·0	4·0	095

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

August 1958 (Sravana 10—Bhadra 9, 1880 Saka)

Station	GAYA								GOPALPUR								GORAKHPUR							
Time in I.S.T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	3·8	0·7	098	31	2·7	1·7	117	31	2·2	1·5	211	31	7·1	5·6	194	31	5·7	4·2	205	31	2·8	2·3	060
0·15 a. g. .	31	8·0	1·3	130	27	11·1	7·0	134	29	9·4	5·0	223	30	14·1	10·1	195	31	12·0	8·6	210	22	11·2	9·8	083
0·3 a. s. l. .	31	8·6	1·4	129	27	11·2	6·4	147	29	10·6	5·6	221	30	13·9	9·5	200	30	12·0	8·4	215	21	12·4	10·2	096
0·6 . , .	31	9·2	1·9	146	27	12·6	8·1	143	27	10·4	5·3	226	30	13·3	8·7	206	30	10·7	6·8	217	20	12·8	7·6	126
0·9 . , .	31	10·8	2·0	174	27	12·8	7·6	149	27	10·1	4·7	230	30	11·4	5·8	210	28	10·0	4·8	216	18	13·0	5·7	126
1·5 . , .	29	12·7	3·7	169	26	11·7	7·0	157	27	10·1	4·0	232	26	9·7	4·9	239	24	8·9	3·3	228	18	13·5	2·4	143
2·1 . , .	24	12·9	3·7	188	20	9·2	4·3	187	27	9·9	3·8	235	22	10·5	4·4	230	17	10·1	5·7	249	17	12·1	2·2	131
3·0 . , .	20	10·7	4·4	256	14	7·0	4·1	230	22	10·2	2·9	206	19	12·7	5·1	216	9	8·4	3·2	248	13	10·6	2·9	150
3·6 . , .	10	9·9	4·3	263	6	4·7	2·0	136	20	10·5	3·8	207	17	12·8	5·7	205	4	7·5	6·5	275	10	7·3	1·8	199
4·5 . , .	3	9·9	4·7	098	1	3·0	3·0	308	15	10·0	3·8	131	14	12·1	4·4	147					9	6·6	2·2	208
5·4 . , .	1	3·0	3·0	030					12	10·7	7·7	106	13	10·4	4·4	111					6	5·3	3·3	192
6·0 . , .									10	11·6	10·9	100	9	11·7	8·7	100					5	7·2	4·9	182
7·2 . , .									7	13·4	13·1	098	6	13·8	13·3	098					3	6·3	3·4	116
9·0 . , .									2	21·0	21·0	095	2	16·5	16·5	085					1	12·0	12·0	165

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

August 1958 (Sravana 10-Bhadra 9, 1880 Saka)

Station	IMPHAL				JABALPUR								JAGDALPUR			
	2330		0530		1730		2330		0530		1730		0530		1730	
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1.5	0.9	211	31	0.8	0.3	188	31	1.7	0.4	220	31	0.8	0.7	219
0.15 a.g.	29	4.3	2.0	211	31	9.9	5.2	220	29	8.2	1.5	225	29	8.5	5.1	193
0.3 a.m.s.l.													25	9.3	6.0	203
0.6 „					31	11.2	5.6	231	29	9.2	1.6	240	29	9.4	5.7	200
0.9 „	29	3.7	1.6	197	29	14.1	6.5	255	29	10.9	3.4	293	27	10.4	6.2	209
1.5 „	29	6.7	4.9	246	24	12.1	4.3	249	22	12.1	3.5	300	25	12.8	4.1	226
2.1 „	21	9.4	6.9	237	20	12.1	2.8	256	21	13.7	2.9	309	24	12.1	2.6	219
3.0 „	16	11.4	7.7	216	12	8.5	1.6	126	16	9.5	1.4	306	20	10.3	1.8	112
3.6 „	11	9.8	4.8	210	8	10.3	0.4	020	12	9.1	1.0	252	9	9.2	1.3	326
4.5 „	4	10.7	6.2	226	6	10.2	2.0	030	6	7.2	1.5	040	3	10.3	4.9	042
5.4 „	1	17.0	17.0	275	6	9.0	2.5	150	6	7.5	2.9	082				1
6.0 „					5	10.4	3.4	144	4	4.7	2.9	117				1
7.2 „					4	8.0	6.0	129	4	8.3	6.0	124				1
9.0 „					2	15.0	14.9	088	2	4.0	4.0	092				1
Station	JAGDALPUR				JAIPUR								JAMSHPEDPUR			
Time in I.S.T.	2330		0530		1730		0530		1730		0530		1730		0530	
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1.5	1.1	221	31	2.5	0.9	290	31	4.0	0.7	270	31	2.6	1.0	119
0.15 a.g.	26	9.7	6.7	216	30	10.2	5.3	225	31	8.9	2.2	206	27	7.4	3.0	158
0.3 a.m.s.l.									27	7.5	3.2	164	30	8.8	4.5	134
0.6 „	26	6.2	4.3	210	30	12.7	9.7	265	31	9.8	1.5	212	29	11.5	5.6	199
0.9 „	26	10.8	7.3	228	29	14.5	9.6	275	30	9.4	1.9	267	28	13.6	6.9	214
1.5 „	22	9.1	5.3	257	28	11.2	6.3	300	30	9.4	4.5	326	24	11.7	6.0	235
2.1 „	16	10.2	6.1	258	21	9.3	3.8	350	24	9.3	6.0	347	22	11.8	6.6	245
3.0 „	13	10.6	4.7	244	15	9.8	7.9	028	18	11.8	8.7	008	17	11.5	6.4	259
3.6 „	4	12.3	7.3	136	11	8.5	4.9	038	12	11.5	8.2	349	14	9.1	3.9	238
4.5 „					7	10.0	7.9	315	8	9.3	5.9	315	11	9.5	4.6	185
5.4 „					2	8.0	2.1	088	5	14.2	13.6	275	8	9.2	4.2	191
6.0 „					2	12.5	5.1	142	3	10.0	9.4	255	5	9.2	8.3	125
7.2 „					1	4.0	4.0	235	2	10.0	9.7	250	3	8.3	7.8	109
9.0 „					1	10.0	10.0	345					2	7.5	7.5	138

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

August 1958 (Sravana 10—Bhadra 9, 1880 Saka)

Station	JHARSUGUDA								JODHPUR															
	1730				2330				0530*				1130				1730*				2330			
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	2.7	1.1	149	31	3.3	1.9	147	30	5.1	5.0	236	31	6.0	5.3	238	31	6.2	4.1	223	31	4.7	3.2	206
0.15 a. g.	26	8.0	3.9	158	27	9.7	6.7	154	30	7.5	7.2	240	31	9.8	8.5	229	31	7.5	5.0	227	31	15.8	11.9	208
0.3 a.m.s. 1.	26	6.9	3.7	159	27	8.5	6.1	149	30	6.7	6.3	241	31	8.1	6.6	234	31	7.4	5.0	227	31	12.5	8.6	207
0.6 „	26	8.0	2.9	159	27	10.9	6.4	173	30	10.8	10.3	268	31	10.7	9.3	229	31	8.7	5.1	230	31	16.6	12.1	216
0.9 „	26	9.6	3.8	142	27	10.8	5.2	185	30	13.9	13.1	253	31	10.7	8.7	235	31	10.2	5.9	237	31	15.4	11.7	221
1.5 „	22	12.3	4.7	103	24	10.4	2.7	184	30	12.6	8.7	238	23	11.6	4.8	231	31	10.7	5.9	256	28	12.1	7.9	233
2.1 „	18	12.0	4.9	116	21	11.2	2.8	185	30	10.3	2.5	189	17	10.5	5.1	073	31	9.2	2.6	292	25	9.8	1.3	133
3.0 „	14	11.6	2.7	143	15	11.5	6.4	233	29	10.3	6.1	064	16	11.6	8.2	064	29	8.8	6.4	018	21	10.5	7.6	043
3.6 „	12	11.5	4.9	157	9	7.3	4.0	173	29	10.8	8.3	056	16	11.7	8.9	069	28	9.2	6.2	020	13	11.0	8.0	049
4.5 „	3	13.0	8.6	198					27	11.6	8.8	053	15	10.8	2.5	079	26	8.9	5.7	357	6	8.3	6.1	029
5.4 „									25	9.7	6.0	074	13	8.8	2.8	207	26	8.8	3.3	314	3	8.3	4.1	360
6.0 „									25	9.3	4.0	104	14	9.5	4.9	214	25	9.1	2.9	327	2	5.5	4.5	360
7.2 „									23	9.2	3.5	116	13	8.9	5.6	186	23	7.2	0.4	223	2	7.0	6.0	020
9.0 „									21	12.8	5.4	097	3	13.0	10.6	101	20	11.1	4.2	102	1	6.0	6.0	300
Station	MADRAS												MANGALORE											
Time in I.S.T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	5.4	3.9	235	31	7.1	5.5	269	31	6.4	3.2	169	31	5.4	3.5	194	31	4.2	1.9	266	31	5.8	4.8	278
0.15 a. g.	31	8.0	6.1	247	31	11.7	8.9	270	31	7.2	3.2	180	30	13.6	9.1	211	26	11.3	7.7	277	25	12.0	10.7	274
0.3 a.m.s. 1.	31	10.2	8.1	254	31	11.9	9.2	265	31	7.8	3.3	192	30	15.6	10.3	223	26	12.7	10.6	279	25	14.7	13.2	279
0.6 „	31	13.9	11.0	270	31	12.8	10.8	271	31	9.1	4.9	242	30	17.0	11.2	241	26	16.7	15.9	286	25	18.3	16.7	285
0.9 „	31	17.7	14.4	280	31	15.7	13.6	281	31	10.5	7.3	265	30	17.5	12.4	257	21	18.5	17.8	288	21	19.1	17.5	289
1.5 „	31	18.4	15.6	289	28	21.2	19.2	295	31	14.4	12.2	279	29	17.8	14.6	279	18	17.3	16.5	289	19	17.6	15.6	290
2.1 „	31	17.0	13.8	293	26	20.8	17.5	296	31	16.5	12.6	285	26	19.2	15.8	283	13	18.5	16.9	286	10	13.0	9.9	282
3.0 „	31	17.3	12.7	276	24	19.2	16.7	279	31	17.1	13.2	282	13	13.8	3.7	322	7	15.3	10.4	297	5	8.2	3.3	123
3.6 „	31	17.4	11.0	270	22	19.7	18.0	272	31	17.2	12.8	279	7	7.9	6.7	237	1	9.0	9.0	110	4	7.7	5.1	135
4.5 „	31	17.2	7.9	263	11	16.2	9.5	260	31	17.5	11.8	274	5	9.6	6.9	120					3	12.0	11.9	092
5.4 „	31	16.4	4.6	260	3	13.7	13.2	242	31	17.6	9.3	276									1	16.0	16.0	110
6.0 „	31	15.5	2.4	273	3	19.7	18.7	254	31	16.2	6.9	269									1	21.0	21.0	120
7.2 „	31	15.7	3.9	095	1	10.0	10.0	205	31	14.2	2.3	165									1	21.0	21.0	120
9.0 „	27	18.0	13.3	090	1	19.0	19.0	120	30	18.7	12.4	090									1	22.0	22.0	105

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

August 1958 (Sravana 10—Bhadra 9, 1880 Saka)

Station	MANGALORE				MINICOY								MOHANBARI										
	2330				0530				1730				2330				0530						
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D			
Ht. in Km.																							
Surface.	31	4.8	3.1	294	31	9.7	9.2	277	31	8.2	7.8	288	31	8.4	8.0	285	31	2.6	1.5	076			
0.15 a. g.	29	11.4	9.1	286	28	17.9	17.3	274	28	16.8	16.3	281	26	16.1	15.5	279	16	6.9	2.9	143			
0.3 a. m. s. l.	29	13.6	11.5	217	28	18.7	18.1	278	28	18.7	18.2	284	26	17.4	16.9	279	16	8.0	3.2	153			
0.5 „	29	17.5	15.7	290	28	22.3	21.7	282	28	22.0	21.4	287	26	21.4	21.0	285	15	10.6	6.7	213			
0.9 „	26	19.3	18.0	290	28	25.5	24.9	288	28	25.8	25.4	286	25	24.8	24.5	291	13	10.8	9.8	217			
1.5 „	21	18.2	16.1	289	27	26.0	25.2	297	23	25.3	25.0	297	23	24.8	24.6	300	7	11.3	10.4	222			
2.1 „	14	17.4	12.9	293	19	26.6	26.2	295	21	23.8	23.6	295	18	22.9	22.7	299	4	8.5	6.3	219			
3.0 „	9	13.7	8.6	286	4	18.0	17.9	293	13	19.8	19.7	295	10	18.3	18.2	294	1	5.0	5.0	225			
3.6 „	4	9.0	2.7	167	3	18.7	18.7	280	7	17.7	17.7	285	4	12.0	11.3	284	1	4.0	4.0	235			
4.5 „	2	9.5	8.9	096					4	14.3	13.0	271	1	8.0	8.0	265				7	8.6	7.4	230
5.4 „	2	9.5	8.7	084					2	8.5	6.4	204								4	10.3	5.2	196
6.0 „	.	.	.																	3	10.7	4.4	176
7.2 „	.	.	.																				
9.0 „	.	.	.																				

Station	MOHANBARI				MUSSOORIE								NAGPUR											
	2330				0530				1730				0530*				1130				1730*			
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Ht. in Km.																								
Surface.	31	1.5	1.2	059	31	1.9	0.3	219	31	2.7	1.4	180	31	3.1	2.0	285	31	5.5	3.1	269	31	4.2	2.0	256
0.15 a. g.	17	8.2	3.8	061	9	5.2	4.2	313	3	3.3	2.3	308	31	11.1	6.4	250	27	8.4	5.2	260	31	10.7	7.0	261
0.3 a. m. s. l.	17	8.5	3.7	065									31	10.4	5.4	264	27	7.7	4.2	266	31	8.8	4.9	260
0.6 „	17	9.1	4.5	124									31	9.9	4.7	285	27	8.3	4.5	279	31	8.3	2.7	261
0.9 „	15	8.8	5.2	151									31	10.6	3.9	273	19	8.4	3.9	263	31	10.0	3.3	288
1.5 „	13	7.4	4.3	210									30	9.5	4.4	275	14	7.4	3.3	271	31	9.7	3.8	282
2.1 „	11	9.3	8.2	228	8	4.1	2.8	310	3	7.0	5.3	301	30	9.5	4.4	275	14	7.4	3.3	271	31	9.7	3.8	282
3.0 „	7	8.0	7.4	204	8	13.8	6.0	307	3	4.7	2.1	153	29	9.2	3.7	276	9	9.8	2.0	209	31	10.4	3.1	299
3.6 „	4	6.3	5.7	172	5	15.8	11.2	310	3	5.7	3.9	162	29	9.8	0.4	223	7	10.3	5.1	239	31	10.6	1.6	308
4.5 „	4	6.5	5.9	213	4	9.2	5.9	234	3	7.7	3.6	216	29	9.9	2.9	093	6	11.2	4.3	223	31	10.1	0.8	037
5.4 „	2	7.0	6.9	218	4	12.5	11.1	224	1	15.0	15.0	279	29	11.8	6.4	103	3	15.7	7.4	127	28	10.4	3.3	098
6.0 „	1	7.0	7.0	235	4	13.5	12.7	236	1	18.0	18.0	265	29	12.1	8.6	096	3	16.7	10.4	111	28	9.0	3.9	098
7.2 „	1	7.0	7.0	225	2	25.0	24.9	253	1	32.0	32.0	260	29	13.2	10.9	094					28	11.9	9.0	084
9.0 „	.	.	.		2	44.0	43.7	249	1	52.0	52.0	250	24	18.5	17.7	088					20	18.3	17.9	088

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

August 1958 (Sravana 10—Bhadra 9, 1880 Saka)

Station	NAGPUR				NANPARA				NEW DELHI																
Time in I. S. T.	2330				0530				1730				0530*				1130				1730*				
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Surface .	31	3·9	1·7	281	31	3·3	3·0	110	31	2·6	1·4	117	31	3·6	1·5	226	31	6·0	2·4	292	31	2·2	0·8	072	
0·15 a. g. .	29	7·9	3·8	276	25	11·5	10·6	111	30	7·2	5·4	130	31	9·0	3·3	215	25	8·9	3·1	307	30	7·3	1·2	054	
0·3 a. s. l. .					25	12·2	10·9	117	30	7·3	5·7	132	31	8·9	3·3	214	25	8·5	2·7	304	30	7·6	0·5	059	
0·6 „ .	29	7·7	4·0	273	21	14·2	11·9	122	29	9·8	7·5	131	31	9·3	4·1	247	25	9·0	4·3	302	30	7·6	2·0	351	
0·9 „ .	28	7·7	3·6	258	20	13·2	11·0	126	27	11·7	8·2	129	31	10·7	5·1	261	25	10·1	5·7	315	30	7·2	3·1	336	
1·5 „ .	27	8·7	3·3	256	17	11·6	7·8	121	25	12·3	7·1	117	31	11·1	6·1	303	21	12·3	7·8	315	30	8·5	5·4	322	
2·1 „ .	20	10·1	4·2	245	16	11·4	6·7	110	20	13·0	5·6	121	31	11·8	7·0	334	21	11·7	6·9	332	31	10·3	6·7	322	
3·0 „ .	17	9·0	2·2	252	15	10·2	3·7	130	16	9·4	0·4	229	31	12·3	6·9	331	19	13·1	8·0	348	31	12·9	9·3	325	
3·6 „ .	8	9·4	1·5	117	12	8·3	1·7	200	14	8·2	1·7	226	31	11·3	6·1	320	18	12·3	6·5	343	31	12·0	8·2	328	
4·5 „ .	2	9·0	8·7	118	9	8·5	3·0	213	8	6·6	2·2	263	31	9·3	4·0	321	14	11·0	5·6	288	31	10·9	7·1	310	
5·4 „ .					6	11·2	5·5	228	5	7·6	5·1	247	31	9·3	2·8	261	13	14·1	8·3	254	30	11·5	8·2	284	
6·0 „ .					2	13·0	12·8	274	4	7·2	5·2	278	31	9·4	4·6	243	13	16·1	9·2	255	30	12·0	8·5	279	
7·2 „ .						2	12·0	11·9	267	3	10·0	9·7	264	31	10·1	5·3	223	10	18·4	15·9	236	30	13·2	9·5	250
9·0 „ .													29	13·0	7·7	236	8	19·7	18·1	234	30	14·0	8·9	245	
Station	NEW DELHI				POONA								PORTBLAIR												
Time in I. S. T.	2330				0530				1730				2330				0530*				1130				
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Surface .	31	3·4	2·0	161	31	1·2	1·1	255	31	4·8	4·6	267	31	2·2	2·1	262	31	5·9	4·2	222	31	8·5	7·0	220	
0·15 a. g. .	31	9·0	5·3	155	30	8·9	8·5	260	31	12·9	12·6	265	31	10·3	10·2	262	31	13·6	10·7	222	31	11·6	9·0	218	
0·3 a. s. l. .	31	7·8	4·5	159													31	14·4	11·4	223	31	12·2	9·6	217	
0·6 „ .	31	8·4	4·0	153	30	4·3	4·0	259	31	7·9	7·6	268	31	6·0	5·8	262	31	17·4	14·0	227	31	14·4	11·6	221	
0·9 „ .	31	7·3	2·0	174	30	11·8	11·3	264	31	15·5	15·2	265	31	12·7	12·5	268	31	18·4	14·1	230	31	15·4	12·5	221	
1·5 „ .	30	8·7	2·9	305	24	18·3	17·3	270	25	17·4	17·0	269	21	17·7	16·2	276	31	18·7	13·8	232	27	15·3	11·7	220	
2·1 „ .	26	11·0	6·0	326	18	16·3	13·4	265	19	16·0	14·0	263	15	11·8	7·9	268	31	18·6	13·5	238	25	14·2	9·9	217	
3·0 „ .	24	12·0	6·9	341	9	9·8	4·0	262	12	12·8	7·2	251	7	7·4	3·7	230	30	16·0	8·2	236	24	13·5	8·9	213	
3·6 „ .	14	9·2	3·8	341	4	9·0	3·7	244	5	12·8	7·6	140	6	4·7	0·9	210	30	15·4	6·5	230	19	13·6	9·9	217	
4·5 „ .	1	10·0	10·0	345	1	9·0	9·0	145	3	12·3	6·5	215	4	7·3	7·2	180	30	14·1	4·5	225	16	12·4	8·0	214	
5·4 „ .									1	10·0	10·0	135	3	10·7	10·1	157	29	11·0	3·7	160	9	12·4	5·7	229	
6·0 „ .													3	10·7	8·1	124	29	10·3	2·4	138	6	13·8	2·6	247	
7·2 „ .													2	19·5	18·8	107	28	11·2	5·4	097	4	6·5	6·4	197	
9·0 „ .													23	16·7	14·1	073	1	13·0	13·0	110					

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

August 1958 (Sravana 10—Bhadra 9, 1880 Saka)

Station	PORT BLAIR				RAJPUR				RAXAUL			
	1730*		2330		0530		1730		2330		0530	
Time in I. S. T.	n	V	v	D	n	V	v	D	n	V	v	D
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	6.7	5.8	227	31	5.1	4.3	220	31	3.6	1.8	213
0.15 a. g.	31	13.8	11.8	230	31	8.4	6.9	219	28	11.3	6.9	231
0.3 a. m. s. l.	31	14.1	12.0	230	31	9.3	7.7	220	25	9.0	4.6	226
0.6 ,,	31	16.9	14.7	232	31	10.0	8.2	225	28	12.9	7.2	238
0.9 ,,	31	19.4	16.6	236	31	9.6	7.7	228	25	13.1	6.4	250
1.5 ,,	31	17.6	14.0	234	30	9.2	6.4	220	23	11.5	3.1	260
2.1 ,,	31	16.7	12.1	236	24	8.8	5.7	226	15	10.2	1.5	188
3.0 ,,	31	14.1	8.9	232	18	7.8	3.9	227	8	11.0	1.8	021
3.6 ,,	30	12.8	7.3	229	13	6.2	2.8	188	3	9.3	6.8	070
4.5 ,,	30	11.8	5.3	228	8	6.0	2.4	145	2	8.5	6.7	110
5.4 ,,	29	10.9	2.8	237	3	8.0	5.4	097	1	10.0	10.0	085
6.0 ,,	28	10.7	2.5	237	2	6.0	4.5	041	1	13.0	13.0	100
7.2 ,,	28	11.4	2.7	111	1	5.0	5.0	070	1	16.0	16.0	085
9.0 ,,	18	17.1	15.9	059					1	9.0	9.0	095
									1	19.0	19.0	070
Station	RAXAUL			SANTA CRUZ						TEZPUR		
Time in I. S. T.	1730			0530*		1130		1730*		2330		0530
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	3.1	2.3	113	31	3.5	2.6	246	31	7.7	6.2	233
0.15 a. g.	24	7.6	5.5	117	31	10.9	6.6	250	24	10.5	8.5	240
0.3 a. m. s. l.	24	7.8	6.0	115	31	11.0	7.8	249	24	10.6	8.8	245
0.6 ,,	24	8.7	6.6	115	31	11.2	9.0	259	19	13.5	11.7	251
0.9 ,,	24	9.3	6.7	117	31	11.4	9.8	265	14	13.4	10.8	257
1.5 ,,	20	10.1	7.0	118	31	11.6	9.4	265	5	9.4	6.7	242
2.1 ,,	16	10.5	6.7	121	31	11.8	8.5	263				
3.0 ,,	12	8.7	1.9	170	31	9.5	5.8	271				
3.6 ,,	11	9.6	2.3	209	31	8.7	3.5	282				
4.5 ,,	5	11.6	8.7	249	31	8.2	1.6	324				
5.4 ,,	4	12.5	5.8	251	29	8.6	2.9	060				
6.0 ,,	3	11.7	9.2	252	29	8.7	4.4	068				
7.2 ,,	1	18.0	18.0	185	28	11.3	8.7	090				
9.0 ,,					26	15.5	13.8	088				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

August 1958 (Sravana 10—Bhadra 9, 1880 Saka)

Station	TEZPUR								TIRUCHIRAPALLI								TRIVANDRUM							
	1730				2330				0530				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1.2	0.6	190	31	1.8	0.4	101	31	10.0	9.8	270	31	11.8	10.6	271	31	11.3	9.9	267	31	8.2	7.0	311
0.15 a. g.	27	7.5	2.6	222	25	8.8	3.6	201	31	18.3	17.9	272	30	14.8	12.2	264	26	16.3	14.6	268	29	11.5	10.0	311
0.3 a. m. s. l.	27	8.6	3.0	227	25	9.0	4.1	215	31	20.7	20.4	271	30	14.9	12.8	264	26	18.1	16.0	268	29	14.0	12.5	310
0.6 ..	27	8.8	5.3	237	24	10.1	7.3	256	31	24.7	24.5	273	30	15.9	15.3	266	26	23.7	21.7	265	29	19.3	18.0	307
0.9 ..	24	10.4	7.1	245	24	10.5	9.8	261	31	22.6	21.7	277	30	16.6	16.2	267	26	22.8	21.1	269	28	24.3	23.5	307
1.5 ..	21	12.1	9.7	251	17	11.9	10.4	249	30	17.2	15.8	272	30	17.3	16.6	266	25	16.9	16.1	276	28	25.9	25.4	310
2.1 ..	18	14.0	12.4	245	11	10.2	8.8	242	28	15.8	13.3	283	29	17.6	16.2	271	25	15.5	13.8	283	27	24.9	24.4	307
3.0 ..	12	13.3	10.0	236	4	8.0	5.9	197	24	12.0	8.8	298	26	18.5	15.7	281	19	17.1	13.9	286	27	21.7	20.7	284
3.6 ..	12	12.7	9.3	238	1	9.0	9.0	145	19	14.5	7.5	281	21	14.5	10.3	285	12	14.0	6.5	278	26	16.8	15.4	280
4.5 ..	10	11.3	8.1	253	1	8.0	8.0	130	14	14.4	4.6	252	13	12.3	4.9	270	4	13.8	3.9	122	26	11.2	9.1	273
5.4 ..	4	9.5	9.0	244	1	5.0	5.0	145	6	11.8	2.6	190	12	12.1	1.9	148	2	11.0	11.0	125	26	10.0	4.1	296
6.0 ..	4	12.2	7.4	229	1	6.0	6.0	130	3	14.7	14.3	111	10	13.4	7.9	121	1	6.0	6.0	190	26	10.1	2.9	336
7.2 ..	2	9.5	6.7	239	1	6.0	6.0	170	2	19.0	19.0	089	4	12.7	12.4	095					26	12.1	5.5	110
9.0 ..													1	13.0	13.0	115					19	22.8	20.8	090

Station	TRIVANDRUM								UDAIPUR																
	1130				1730*				2330				0530				1730				2330				
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Surface	31	9.2	8.3	302	31	12.5	11.8	289	31	5.8	5.1	312	31	1.5	1.2	238	31	2.6	1.6	249	31	1.2	1.0	208	
0.15 a. g.	24	16.1	14.8	298	30	14.5	13.9	290	27	14.3	13.0	307	31	6.3	5.4	254	29	8.0	4.7	260	31	5.3	3.5	223	
0.3 a. m. s. l.	24	16.1	14.9	297	30	15.9	15.4	291	27	17.3	16.0	306													
0.6 ..	20	20.3	18.7	304	30	20.1	19.6	298	25	23.8	22.6	304													
0.9 ..	13	24.2	23.7	314	30	24.4	23.8	303	19	26.9	26.1	306	31	8.4	7.3	260	29	9.5	5.2	292	31	6.8	4.6	237	
1.5 ..	4	21.7	20.5	304	29	24.0	23.4	303	10	27.0	26.2	302	22	7.8	1.5	301	28	10.7	4.5	281	29	10.2	4.0	257	
2.1 ..	1	13.0	13.0	310	27	23.8	23.0	296	6	21.0	20.4	297	20	8.5	4.5	065	24	9.6	2.9	325	27	11.0	1.6	353	
3.0 ..					27	23.0	22.0	288	1	10.0	10.0	280	16	11.2	9.9	064	20	8.1	4.2	035	21	9.7	7.2	052	
3.6 ..					27	20.0	18.0	285					13	7.3	5.6	055	18	7.1	4.8	025	18	8.0	6.1	046	
4.5 ..					27	14.8	13.0	281					5	6.2	2.2	080	11	5.5	1.5	010	9	4.2	2.9	043	
5.4 ..					27	12.4	8.4	282					1	9.0	9.0	115	7	9.3	2.9	259	4	6.5	2.6	040	
6.0 ..					27	11.1	4.2	282									6	7.7	3.3	228	3	7.7	1.0	029	
7.2 ..					27	11.1	4.0	096									3	5.7	3.3	112	1	13.0	13.0	105	
9.0 ..					26	21.3	18.7	092									2	9.0	7.3	074					

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

August 1958 (Sravana 10—Bhadra 9, 1880 Saka)

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9.0 km. above mean sea level

August 1958 (Sravana 10—Bhadra 9, 1880 Saka)

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9.0 km. above mean sea level

August 1958 (Sravana 10—Bhadra 9, 1880 Saka)

Ht. in Km.	n	V	v	D
UDAIPUR				
1730 hrs.				
10·5	1	27·0	27·0	100
12·0	1	44·0	44·0	095
VERAVAL				
0530 hrs.*				
10·5	24	26·4	25·7	093
12·0	23	39·7	39·5	099
14·1	21	54·6	53·2	261
16·2	10	58·5	58·0	097
18·0	7	55·3	52·3	097
21·0	1	102·0	102·0	190
1130 hrs.				
10·5	1	32·0	32·0	075
12·0	1	40·0	40·0	090
1730 hrs.*				
10·5	24	29·8	29·2	093
12·0	22	40·0	40·0	095
14·1	22	58·0	56·4	099
16·2	20	56·9	55·8	094
18·0	10	54·3	52·4	086
21·0	1	31·0	31·0	090

RADIOSONDE DATA

August 1958 (Sravana 10—Bhadra 9, 1880 Saka)

During the month, observations of upper air temperature, pressure and humidity were made at 13 stations in India as given in the list below. For a detailed description of the instruments used, a reference may be made to the I.M.D. Scientific Notes Nos. 112 and 113 (Volume IX).

LIST OF RADIOSONDE STATIONS IN INDIA

S. No.	Name of station	Type of instrument used	Date of starting	Hours of routine observations in G.M.T. during the month	Remarks
1	Allahabad	Clock type	1st October 1944	00 and 12	
2	Amritsar	Clock type	21st June 1957	00 and 12	
3	Bombay	Clock type	7th September 1954	00 and 12	
4	Calcutta	Clock type	13th December 1946	00 and 12	
5	Gauhati	Clock type	22nd July 1955	00 and 12	
6	Jodhpur	Clock type	17th April 1946	00 and 12	
7	Madras	Fan type	29th June 1946	00 and 12	
8	Nagpur	Fan type	1st October 1946	00 and 12	
9	New Delhi	Clock type	3rd December 1943	00 and 12	
10	Port Blair	Fan type	4th December 1949	00 and 12	
11	Trivandrum	Fan type	1st July 1947	00 and 12	
12	Veraval	Fan type	3rd October 1944	00 and 12	
13	Visakhapatnam	Fan type	8th December 1946	00 and 12	

Fan type used from 13-12-46 to 30-11-47.

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 00 Hours G. M. T.

August 1958 (Sravana 10—Bhadra 9, 1880 Saka)

Standard Pressure Surface mbs.	ALLAHABAD Surf. Pr. (990 mb.)							AMRITSAR (974 mb.)							BOMBAY (1002 mb.)						
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A						
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			
Surface	31	098	300·0	302	297	298·4	31	230	299·5	303	295	297·3	31	013	298·5	300	297	297·1			
1000	28	003	..	..	..	..	29	—07	..	..	..	..	31	032	..	..	..	..
900	28	935	296·9	300	294	293·9	29	924	298·2	302	295	292·0	31	956	294·5	297	292	292·2			
850	28	1435	294·1	298	291	291·6	29	1425	295·7	300	293	..	31	1452	292·1	295	289	289·5			
800	28	1959	291·4	294	289	288·5	29	1950	292·4	295	289	286·7	31	1973	289·5	293	287	287·0			
700	28	3095	285·9	288	283	282·4	29	3085	285·4	290	282	277·1	31	3104	285·0	288	283	281·1			
600	28	4380	280·4	288	278	275·9	29	4360	277·6	283	271	267·4	31	4383	278·8	283	276	275·0			
500	28	5862	272·6	277	269	270·7	29	5821	269·1	275	262	262·5	30	5859	271·7	276	268	268·3			
400	27	7618	263·1	268	257	..	28	7553	260·4	268	250	..	29	7610	262·9	271	256	..			
300	22	9775	249·5	256	244	..	26	9712	248·5	256	240	..	25	9793	250·7	257	241	..			
250	20	11089	240·0	248	233	..	22	11032	239·7	243	228	..	22	11101	240·8	247	237	..			
200	18	12622	229·2	240	219	..	16	12558	226·9	231	215	..	19	12636	230·1	236	223	..			
175	13	13364	220·0	228	212	..	13	13453	220·3	225	212	..	9	13501	222·3	227	214	..			
150	9	14456	213·0	223	205	..	13	14430	213·1	219	205	..	8	14482	214·6	222	205	..			
125	8	15554	204·6	216	197	..	10	15551	205·1	212	197	..	5	15560	206·2	210	201	..			
100	7	16915	201·6	214	196	..	9	16889	203·0	211	197	..									
80	5	18429	210·4	223	196	..	7	18257	204·7	218	190	..									
	CALCUTTA (1002 mb.)							GAUHATI (998 mb.)							JODHPUR (976 mb.)						
Surface	31	006	299·6	301	297	298·8	31	049	300·0	301	299	298·5	28	218	302·1	304	300	296·1			
1000	31	022	..	..	..	..	31	036	..	..	..	..	28	003	..	..	..	..
900	31	946	294·8	300	291	293·0	31	962	294·9	298	292	292·8	28	936	298·2	301	295	291·9			
850	31	1440	292·6	297	289	289·9	31	1458	292·5	296	288	290·3	28	1436	295·4	298	291	289·7			
800	31	1961	290·3	294	285	287·0	31	1979	289·8	293	285	287·5	28	1962	292·5	295	289	286·9			
700	31	3091	284·6	289	280	280·9	31	3108	284·5	290	282	281·7	28	3102	287·6	293	284	277·7			
600	31	4367	277·9	283	274	274·3	31	4384	278·3	281	274	275·2	26	4386	279·3	285	274	268·6			
500	31	5836	269·6	275	263	265·5	30	5855	270·9	274	267	..	26	5860	271·5	277	266	262·7			
400	31	7570	259·7	265	249	..	29	7598	261·8	266	254	..	25	7608	262·0	268	253	..			
300	27	9700	244·2	252	237	..	13	9763	248·6	253	242	..	23	9766	248·8	255	241	..			
250	21	10987	233·9	243	226	..	8	11107	238·9	244	229	..	22	11068	234·0	248	230	..			
200	17	12478	220·9	230	210	..	5	12606	227·8	231	218	..	20	12599	226·0	236	218	..			
175	13	13384	216·1	223	211	..						..	19	13462	218·7	233	213	..			
150	7	14340	209·6	215	203	..						..	18	14450	211·5	224	198	..			
125	..	..	..	..	..	..						..	17	15551	203·6	215	193	..			
100	..	..	..	..	..	..						..	14	16881	200·9	205	194	..			
80	..	..	..	..	..	..						..	10	18216	203·1	215	193	..			

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 00 Hours G. M. T.

August 1958 (Seavane ro—Shadra 9, 1880 Saha)

Standard Pressure Surface mbs.	MADRAS Surf. Pr. (1003 mb.)							NAGPUR (967 mb.)							NEW DELHI (997 mb.)						
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A						
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			
Surface	31	015	300·4	302	298	296·9	29	311	298·4	301	296	296·8	31	210	299·5	302	297	297·8			
1000	31	042	..	..	..	..	29	017	..	..	..	..	31	042	..	..	..	..
900	31	968	295·1	299	291	290·4	29	944	295·6	299	293	293·0	31	931	297·6	302	294	293·8			
850	31	1463	292·5	295	290	287·6	29	1441	292·7	295	289	290·4	31	1431	294·6	297	291	290·6			
800	31	1983	289·6	292	287	285·1	29	1964	290·1	293	287	287·9	31	1957	291·9	298	289	288·5			
700	31	3110	283·5	287	281	279·2	29	3095	284·6	287	281	281·5	31	3090	285·4	289	283	281·2			
600	31	4379	276·6	281	272	272·1	29	4373	277·9	281	275	274·4	31	4369	278·4	284	276	271·8			
500	31	5837	268·5	273	263	..	29	5839	269·5	274	265	..	31	5843	271·5	278	269	264·3			
400	31	7563	258·0	265	250	..	29	7571	259·9	265	253	..	31	7593	262·4	269	259	..			
300	27	9684	244·0	249	236	..	23	9704	245·9	253	239	..	28	9752	248·7	257	243	..			
250	24	10960	235·9	241	227	..	19	11002	236·4	243	232	..	28	11056	239·0	246	232	..			
200	17	12447	223·3	230	213	..	17	12516	223·5	233	214	..	27	12577	226·8	233	219	..			
175	11	13318	217·7	224	209	..	12	13371	218·5	227	211	..	26	13453	219·8	225	210	..			
150	10	14280	209·5	219	201	..	12	14354	211·7	220	204	..	25	14425	211·2	217	201	..			
125	..	..	..	..	..	..	11	15495	206·0	212	195	..	25	15527	202·3	210	195	..
100	..	..	..	..	..	..	6	16752	202·3	206	199	..	23	16847	198·8	205	191	..
80	..	..	..	..	..	..						..	20	18168	203·7			
PORT BLAIR (998 mb.)																					
TRIVANDRUM (1000 mb.)																					
Surface	31	079	298·1	300	295	296·9	31	064	297·8	299	296	296·5	31	008	300·8	302	300	298·1			
1000	31	062	..	..	..	..	27	067	..	..	..	..	31	022	..	..	..	..
900	31	986	294·4	299	292	292·0	27	987	292·6	295	290	289·6	31	946	294·6	297	293	291·6			
850	31	1480	291·6	295	289	288·5	27	1479	290·0	293	286	286·1	31	1440	292·0	295	289	288·6			
800	31	2003	289·1	292	286	285·4	27	1995	287·9	293	285	283·4	31	1959	289·5	294	286	286·3			
700	30	3129	283·3	287	280	279·5	27	3116	283·0	286	280	276·2	31	3087	285·2	290	282	277·8			
600	30	4396	276·1	279	272	272·9	27	4382	276·2	279	272	268·6	31	4362	278·2	284	274	273·0			
500	28	5846	267·7	271	263	..	26	5834	267·0	275	263	..	31	5826	269·7	276	265	264·3			
400	28	7563	256·6	264	250	..	26	7543	256·4	263	251	..	31	7557	259·1	267	252	..			
300	19	9667	241·8	250	231	..	22	9645	240·2	245	231	..	31	9679	243·5	252	237	..			
250	14	10923	231·0	237	225	..	20	10898	230·6	236	225	..	31	10955	233·7	244	228	..			
200	9	12391	217·7	225	211	..	17	12370	218·9	225	213	..	31	12443	221·2	229	211	..			
175	6	13238	214·2	219	212	..	12	13244	213·1	219	207	..	29	13303	214·0	224	204	..			
150	6	14208	205·8	212	201	..	9	14235	206·8	211	202	..	25	14253	206·2	217	197	..			
125							6	15326	202·7	207	198	..	22	15349	201·1	211	194	..			
100													20	16625	202·0	221	194	..			
80													15	18059	206·1	215	195	..			

RADIOSONDE DATA

TABLE VI--MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 00 Hours G. M. T.

August 1958 (Sravana 10—Bhadra 9, 1880 Saka)

Standard Pressure Surface mbs.	No. of obs.	Ht. gpm.	VISAKHAPATNAM Surf. Pr. (997 mb.)			
			Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	31	048	300.1	301	298	297.6
1000	31	020	..	..	..	..
900	31	948	295.6	299	292	292.6
850	31	1444	293.0	296	290	290.2
800	31	1965	290.0	293	287	287.1
750	31	3092	283.8	287	281	280.4
600	30	4365	277.5	283	273	273.2
500	30	5829	269.0	275	264	..
400	29	7558	258.3	262	253	..
300	20	9671	244.3	251	239	..
250	12	10972	236.1	241	231	..
200	9	12469	224.6	232	215	..
175	6	13350	219.2	224	210	..
150	6	14338	212.9	220	205	..
125	..	..	..	..	..	..
100	..	..	..	..	..	..
80	..	..	..	..	..	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 12 Hours G. M. T.

August 1958 (Sravana 10—Bhadra 9, 1880 Saka)

Standard Pressure Surface mbs.	ALLAHABAD Surf. Pr. (987 mb.)							AMRITSAR (973 mb.)							BOMBAY (1002 mb.)						
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A						
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			
Surface	31	98	303.1	308	298	298.7	31	230	306.2	310	301	297.0	31	13	300.4	303	296	297.5			
1000	30	—14	..	..	..	..	30	—23	..	..	..	..	31	28	..	..	..	..
900	30	924	298.0	301	294	293.9	30	923	301.8	306	298	291.8	31	956	295.1	300	292	292.0			
850	30	1425	295.1	298	291	290.5	30	1430	298.3	302	293	288.5	31	1452	292.7	298	289	289.6			
800	30	1950	292.3	295	289	287.1	30	1958	295.1	298	292	284.5	31	1975	290.4	297	287	286.9			
700	30	3090	286.7	288	284	279.4	30	3103	288.1	292	285	276.2	31	3109	285.7	293	281	280.2			
600	30	4374	280.1	283	278	272.9	30	4391	280.5	287	274	267.0	31	4392	279.7	286	276	275.0			
500	29	5856	272.7	277	270	268.5	30	5867	271.2	279	260	263.4	31	5873	272.5	280	268	269.9			
400	25	7611	263.0	268	259	..	29	7615	262.1	269	252	..	31	7629	263.5	272	256	..			
300	23	9785	249.0	257	241	..	20	9812	249.9	257	244	..	22	9798	251.1	259	241	..			
250	21	11078	239.3	248	231	..	17	11108	241.1	248	233	..	17	11147	244.4	258	235	..			
200	20	12604	226.6	231	220	..	14	12644	229.3	239	220	..	13	12659	231.4	241	223	..			
175	15	13466	218.9	224	207	..	14	13540	222.7	228	213	..	12	13530	224.2	233	217	..			
150	13	14451	212.2	223	203	..	12	14563	216.5	223	208	..	11	14535	216.9	225	209	..			
125	11	15577	205.8	221	199	..	10	15679	210.2	216	201	..	9	15692	209.8	221	201	..			
100	12	17020	202.3	222	193	..	7	17017	203.6	209	201	..	.5	16928	203.8	211	196	..			
80	8	18201	200.4	214	195	..															
	CALCUTTA (1000 mb.)							GAUHATI (996 mb.)							JODHPUR (974 mb.)						
Surface	31	6	302.2	305	297	298.8	31	49	302.2	305	299	299.1	31	218	308.6	313	301	295.5			
1000	31	7	..	..	..	..	30	12	..	..	..	..	31	—25	..	..	..	..
900	31	936	296.5	299	293	293.6	30	915	297.0	301	294	293.9	31	928	302.8	308	295	291.9			
850	31	1432	293.8	296	290	290.3	30	1443	294.4	298	291	291.5	31	1436	298.8	304	293	290.4			
800	31	1955	291.2	294	286	287.5	30	1967	291.5	296	289	288.8	31	1966	295.0	299	291	288.1			
700	31	3089	285.9	289	282	281.3	30	3102	285.5	290	283	282.4	30	3113	288.4	292	285	279.4			
600	31	4372	279.7	283	275	274.2	28	4381	279.3	283	277	275.7	28	4405	281.1	287	277	269.5			
500	31	5851	271.8	276	266	267.2	28	5856	271.6	276	266	268.4	28	5891	273.8	280	269	262.4			
400	31	7600	261.8	266	255	..	27	7601	261.9	268	251	..	25	7658	264.8	271	259	..			
300	28	9752	247.5	253	236	..	12	9776	249.7	254	244	..	23	9844	250.6	262	245	..			
250	26	11048	237.8	245	221	..	7	11083	240.0	246	234	..	20	11175	242.6	253	233	..			
200	24	12575	225.6	233	213	..	..	..	..	..	..	..	19	12724	230.0	239	219	..			
175	17	13461	217.9	225	206	..	..	..	..	..	..	..	18	13591	222.8	233	211	..			
150	15	14421	210.3	219	202	..	..	..	..	..	..	..	18	14543	213.1	223	203	..			
125	10	15552	208.2	210	193	..	..	..	..	..	..	..	16	15686	208.3	217	195	..			
100	8	16872	198.3	201	195	..	..	..	..	..	..	..	13	17057	202.2	211	195	..			
80													10	18486	205.7	211	199				

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 12 Hours G. M. T.

August 1958 (Sravana 10—Bhairava 9, 1880 Saka)

Standard Pressure Surface mb.s.	MADRAS Surf. Pr. (1001 mb.)							NAGPUR (965 mb.)							NEW DELHI (975 mb.)						
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A						
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			
Surface	31	15	303.3	307	299	297.3	30	311	302.0	307	298	297.4	31	210	304.4	312	299	299.7			
1000	31	24	..	..	..	..	30	-8	..	..	..	..	31	-20	..	..	..	..
900	31	959	293.9	301	295	291.8	30	929	297.7	302	294	294.3	31	922	299.9	306	295	294.2			
850	31	1457	293.1	296	291	289.0	30	1429	294.1	297	290	291.6	31	1425	296.6	301	292	290.9			
800	31	1978	289.7	292	287	285.6	30	1954	290.8	293	288	288.4	31	1953	293.5	297	290	287.1			
700	31	3105	283.5	286	281	279.1	30	3087	284.5	287	281	281.6	31	3094	287.1	290	285	279.8			
600	31	4374	276.7	279	274	271.1	30	4364	278.2	282	274	274.9	31	4379	280.0	283	274	270.3			
500	31	5836	269.0	272	266	..	30	5833	270.3	274	267	..	30	5860	273.0	276	269	260.5			
400	31	7560	257.9	263	252	..	28	7572	260.6	265	255	..	30	7618	263.2	267	259	..			
300	30	9670	242.5	249	237	..	21	9711	245.6	253	238	..	29	9778	249.3	253	243	..			
250	27	10950	232.1	239	228	..	18	10990	234.7	245	222	..	29	11085	239.8	245	234	..			
200	23	12437	220.8	229	215	..	14	12508	223.7	234	217	..	29	12613	227.8	234	220	..			
175	16	13300	214.1	220	208	..	11	13395	217.6	228	209	..	28	13490	219.0	226	210	..			
150	16	14252	207.4	215	197	..	11	14374	210.8	220	199	..	26	14467	212.2	219	203	..			
125	11	15391	202.9	208	195	..	7	15413	200.8	212	190	..	25	15571	203.8	212	198	..			
100	6	16841	197.6	199	196	..	7	16733	199.0	205	192	..	25	16878	197.6	211	191	..			
80													18	18165	199.7	218	192	..			
	PORT BLAIR (997 mb.)							TRIVANDRUM (1000 mb.)							VERAVAL (1002 mb.)						
Surface	31	79	299.5	302	297	297.3	31	64	300.5	303	299	296.7	31	8	302.4	304	298	298.6			
1000	30	52	..	..	..	..	27	62	..	..	..	..	31	21	..	..	..	..
900	30	979	294.4	297	292	293.1	27	987	293.7	295	291	289.4	31	947	295.3	298	292	291.1			
850	30	1474	291.8	295	288	289.5	27	1480	290.6	294	288	286.9	31	1442	292.6	296	290	288.9			
800	30	1998	289.1	292	286	286.7	27	1997	288.4	291	285	283.7	31	1962	290.1	293	287	286.6			
700	30	3121	283.7	287	279	280.3	27	3122	283.8	287	280	275.5	30	3093	285.8	291	281	278.8			
600	30	4391	276.6	282	272	273.6	27	4391	277.2	281	274	268.9	30	4371	279.0	283	274	273.1			
500	29	5851	268.4	273	264	..	27	5850	268.3	272	265	..	30	5842	270.8	274	265	263			
400	27	7570	257.5	263	252	..	27	7570	257.3	261	253	..	30	7581	260.7	264	255	..			
300	17	9678	241.9	247	235	..	26	9682	242.2	249	236	..	30	9719	245.9	251	242	..			
250	10	10949	232.0	237	226	..	24	10925	233.0	239	227	..	29	11007	236.2	243	231	..			
200	7	12435	220.7	226	214	..	19	12409	220.3	228	211	..	29	12510	223.4	233	219	..			
175	7	13341	213.0	222	207	..	19	13267	214.4	223	207	..	29	13368	215.6	228	218	..			
150							17	14233	206.8	218	200	..	29	14363	208.3	223	202	..			
125							8	15277	199.0	205	193	..	29	15468	201.3	214	190	..			
100							6	16616	199.0	207	191	..	27	16740	197.3	211	187	..			
80													21	18076	200.0	219	188	..			

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 12 Hours G. M. T.

August 1958 (Sravana 10—Bhadra 9, 1880 Saka)

Standard Pressure Surface mbs.	VISAKHAPATNAM Surf. Pr. (995 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	31	48	302.2	304	299	298.4
1000	31	8	..	..	..	..
900	31	939	295.7	297	291	292.1
850	31	1435	293.2	296	290	289.8
800	31	1957	290.2	293	285	286.5
700	31	3086	284.5	287	277	279.9
600	30	4360	277.7	282	269	273.4
500	30	5825	269.6	274	263	..
400	28	7559	259.2	263	254	..
300	21	9703	246.4	252	242	..
250	17	10997	238.1	244	231	..
200	12	12533	227.7	237	217	..
175	8	13387	221.5	228	213	..
150	8	14392	214.9	225	207	..
125						
100						
80						

NOTE :—Number of observations refer to those of dynamic height.

Means are not worked out for temperature and dew point for 1000 mb. surface and for dew point for standard pressure surfaces with temperature less than 273°A.

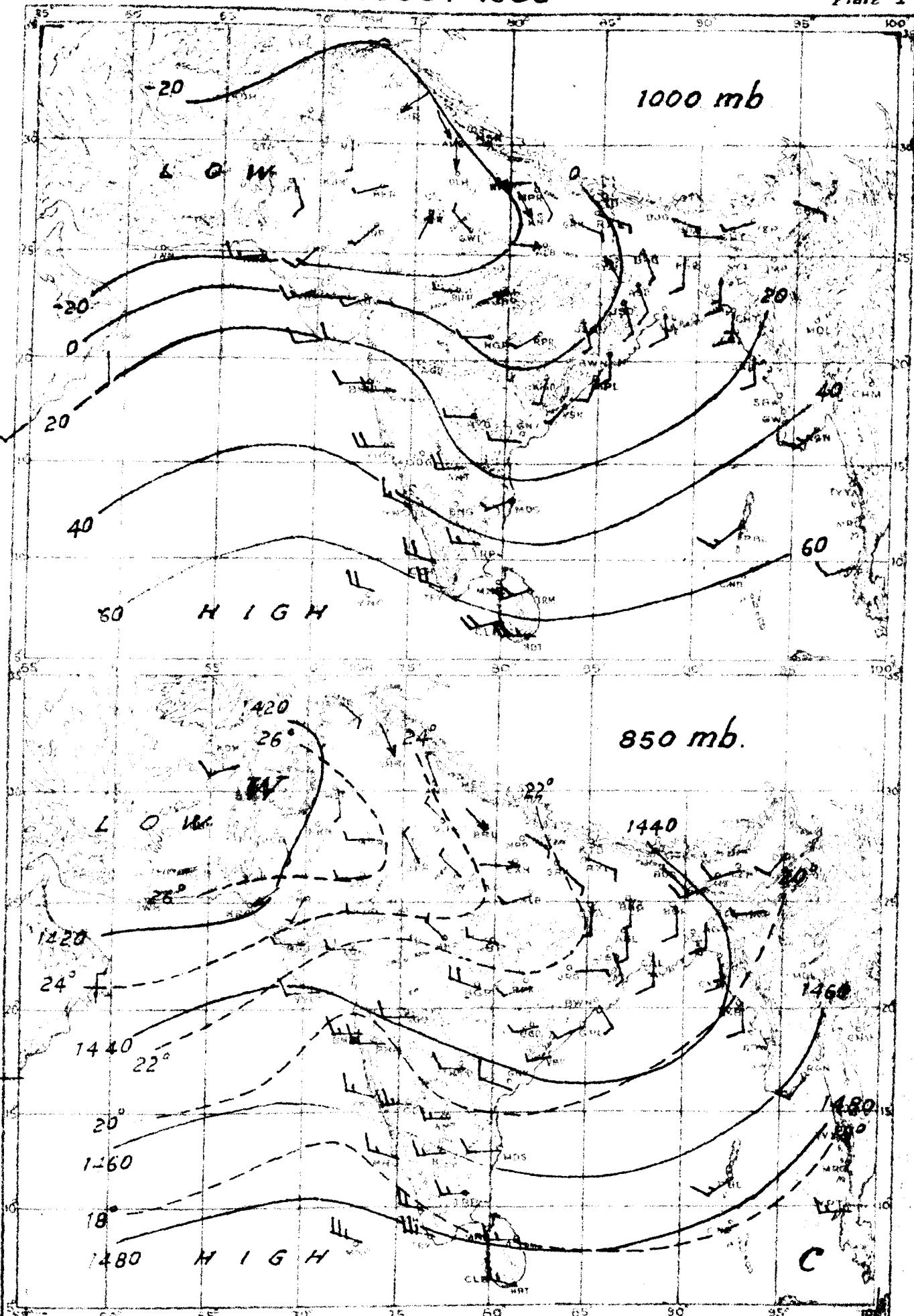
Means are not worked out for less than five observations at standard pressure surfaces.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D.

AUGUST 1958

Plate I



RESULTANT WIND —— 5 Knots, —— 10 Knots, —— 50 Knots.
Isotherms in degrees centigrade Contours in geopotential metres.

G.P.B.O. DOONA, 1958

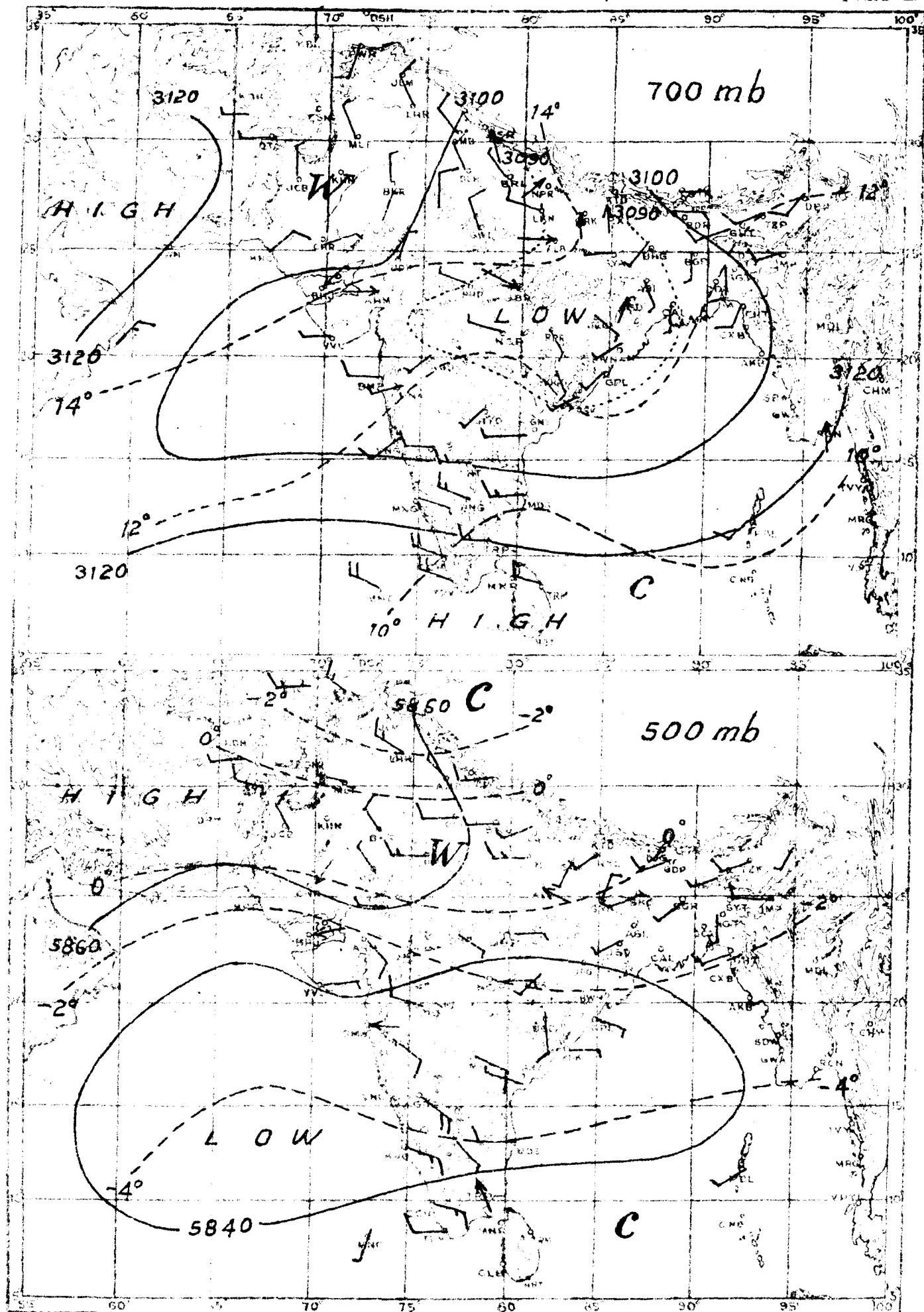
DDG/C 2135.11.63

MONTHLY MEAN CONSTANT PRESSURE CHARTS

Lat. N.

AUGUST 1958 ,

Plate VII



RESULTANT WIND — 5 Knots, — 10 Knots, — 50 Knots.

----- Isotherms in degrees centigrade ----- Contours in geopotential metres.

G.R.E.P. ROMA, 1958

DDGC/2136/11/63

22 DEC 14

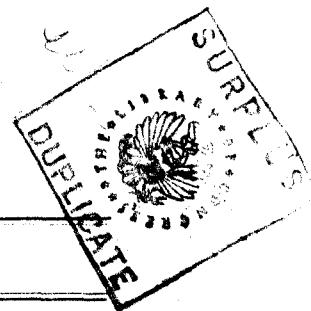
Registered No. B-3097

INDIA WEATHER REVIEW, 1958

Monthly Weather Report

September.

Published by authority of the Government of India



Chief features: Sustained activity of the monsoon over most of the country throughout the month, in association with formation of a series of depressions at the northwest Bay of Bengal and their movement across the country.

Last month's depression from the northwest Bay of Bengal, which lay over Vidarbha on 31st August, moved first northwestwards and then northwards, finally filling up over the Punjab (I) on 5th. Another depression formed in the northwest Bay on 8th, crossed Orissa coast near Chandbai on 9th, moved in a westnorthwesterly direction across the whole country and filled up over Sind and neighbourhood by 16th. In association with these two depressions, the monsoon remained active over most of the country during the first half of the month. A few very heavy falls of rain were also reported from Madhya Pradesh, Gujarat, Saurashtra and Kutch and the Konkan. Dahanu recorded 48 cms of rain on 1st September, the highest ever recorded for a single day at that station. Ahmedabad reported 17 cms on 2nd, Veraval 22 cms on 12th and Rajkot 17 cms on 13th.

One more depression formed in the northwest Bay on 13th morning, crossed coast near Contai the same night and moved into southeast Bihar on 15th. Then it recurved northeastwards and filled up over Assam on 18th. This depression was responsible for vigorous monsoon conditions in northeast India between 14th and 17th. Midnapore recorded 31 cms of rain on 14th.

Apart from the three depressions mentioned above, a well marked low pressure area moved across Orissa and Madhya Pradesh between 22nd and 25th and reached west Rajasthan and adjoining Sind by 26th. It then recurved northeastwards and filled up over the Punjab (I) on 28th. Strong monsoon conditions prevailed along and near the track of this low pressure area throughout its course.

Two western disturbances moved across the extreme north of the country as upper air troughs during the last week of the month. The second of these induced a flow of monsoon air into Jammu and Kashmir where there was fairly widespread rain on 27th and 28th.

The total rainfall during the month was in large deficit in Kerala and the Arabian Sea Islands, in moderate deficit in Maharashtra, Telangana, the Madras State and south Mysore and in slight deficit in Assam, Sub-Himalayan West Bengal and Rayalaseema. It was in large excess in northwest India, Gujarat and Saurashtra and Kutch and in moderate excess in Gangetic West Bengal, Orissa, Chota Nagpur, west Uttar Pradesh and Madhya Pradesh and normal over the rest of the country.

The mean maximum temperature was above normal in the Bay Islands, Assam and the Arabian Sea Islands and normal over the rest of the country outside the northwest India, west Madhya Pradesh and Gujarat where it was below normal. The mean minimum temperature was normal over the country outside west Uttar Pradesh where it was above normal.

Mean relative humidity was normal over the country outside west Uttar Pradesh, the Punjab(I), Rajasthan, west Madhya Pradesh, Gujarat and Saurashtra and Kutch where it was above normal.

Mean cloud amount was above normal in Orissa, Uttar Pradesh, northwest India, Madhya Pradesh, Gujarat, Saurashtra and Kutch, Vidarbha and north Mysore and normal over the rest of the country.

Normal data of Himachal Pradesh are absent.

Table I contains the divisional and sub-divisional means of rainfall, temperatures, humidity and cloud amount for the 14 chief political divisions and the 30 sub-divisions. The stations whose observations are used for preparing these means are given in the subsequent tables.

"Copyright © 1959 by Manager of Publications, Government of India, Delhi-8".

The highest maximum temperature given for any station in the accompanying tables is that recorded within the 24 hours ending at 0830 hrs. IST of the date noted in the succeeding column ; similarly the heaviest fall in 24 hours for any station denotes the amount recorded during the 24 hours ending at 0830 hrs. IST of the date given in the succeeding column.

Poona 5,

The 18th August 1960.

C. RAMASWAMY,

for *Director General of Observatories.*

Errata to M.W.R. September 1958 (Bhadra 10 - Asvina 8, 1880 Saka)

Page No.	Station	Hour	Column For	Read
<u>Text portion</u>				
449	2nd para, third line last word		Chandbai	Chandbali
449	3rd para, first line third word		despression	depression
449	3rd para, last line first word		notheast	northeast
449	6th para, fourth line last but one word		Benal	Bengal
<u>Table I - Division</u>				
451	8 Rajasthan	7	80	70
<u>Table I - Sub-division</u>				
451	16 Madhya Pradesh (East)	7	8	80
<u>Table II</u>				
452	Car Nicobar	13	132.5	132.6
452	Kondul	5	4	4 days
452	Dhubri	22,23	2,0	0,2
452	Haflong	18	3.7	8.7
452	Jalpaiguri	12	-143.0	-143.4
452	Suri	1	Sari	Suri
452	(Foot note)	-	(h) Mean of 23 days	(delete)
453	Bhubaneswar	9	24,25	25
453	Arrah	16	-2.5	+1.5
454	Gurez	11	165.0	165.1
454	Nagaur	6	23.9	23.8
455	Mandla	17	67.1 (b)	6.7 (b)
455	Dohad	19	+ 9.4	..
456	Rajkot (Aerodrome)	19	+ 11.2	..
456	Dahanu	12	574.0	+ 574.0
456	Bombay (Santa Cruz Aero- drome)	10	83.2	83.3
456	Arrangabad (Chikalthana Aerodrome)	12	Blank	..
456	(Foot note)	-	(d) Mean of 15 days	(p) Mean of 15 days
457	Kakinada	5	5	5 days
457	Visakhapatnam	16	4.9	+ 4.9
457	Mysore	9	4	4 days
458	Trivandrum (Aerodrome)	8	27.2	22.7
458	Kohima	5	10	10 days
458	Donoor	14	91	19
458	Inasa	9	91	19
459	Ganabahar	9	4 adys	4 days
<u>Table III</u>				
461	Port Blair	1130	7	37.9
461	Digboi	0830	15	.0
461	Dibrugarh (Mohanbari Aerodrome)	0830	7	29.5
461	Tetpur	0830	9	15.5
461	Tetpur	1130	23	4
461	Tangla	1730	5	992.5
462	Dhubri (Rupsi Aero- drome)	0530	1	Thubri (Rupsi Aerodrome)
				Dhubri (Rupsi Aerodrome)

Contd on page 2.

Page No.	Station	Hour	Column	For	Read
462	Imphal	2330	27	2	22
462	Cooch Behar (C.W.O)	0830	18	0	1
462	Cooch Behar (C.W.O)	1130	18	0	2
462	Cooch Behar (C.W.O)	1730	18	(Blank)	0
462	Bagdogra	1130	23	(Blank)	2
462	Malda	0830	3	31	51
463	Chandballi	1730	11	95	85
463	Cuttack	0830	21	9	0
463	Bhubaneswar	0530	23	4	1
463	Bhubaneswar	0830	20	6	5
463	Bhubaneswar	0830	23	3	2
464	Keonjhar	0830	4	1002.1	1005.1
464	Keonjhar	1730	4	999.2	1002.2
464	Jamshedpur (P.B.O)	2330	9	24.4	24.8
464	Ranchi	1730	17	(Blank)	0
464	Ranchi (C.W.O)	0530	17	(Blank)	1
464	Ranchi (C.W.O)	0830	17	(Blank)	1
464	Ranchi (C.W.O)	1130	17	(Blank)	1
466	Agra (Aerodrome)	0530	23	(Blank)	0
467	Karnal	0830	7	21.2	26.2
467	Chandigarh	1730	4	1000.4	1001.4
467	Amritsar	0530	5	977.7	977.0
468	Nagaur	0830	1	Nagpur	Nagaur
468	Alwar	0830	13	2.6	5.6
468	Dholpur	1730	13	6.3	5.4 (b)
469	Indore	0530	27	4	1
470	Pendra	1130	17	1	0
471	Bhuj (P.B.O)	2330	27	(Blank)	0
471	Mahuva	0830	5	1004.0	1004.6
471	Dahanu	1730	15	19.6	19.6 (g)
471	Bombay (Colaba)	0830	10	21.0	31.0
471	Bombay (Colaba)	0830	15	11.1 (g)	11.1
472	Parbhani	0830	4,5	1007.3, 960.2	1007.5, 960.4
472	Parbhani	1730	4,5	1002.7, 956.4	1002.9, 956.6
472	Baramathi	0830	2	1830	0830
474	Hakimpet	1130	26	8	13
474	Pamban	0830	24	6	16
475	Tiruchirapalli	1730	28	2	1
475	Coimbatore (Peelamedu Aerodrome)	0830	28	(Blank)	0
475	Coimbatore (Peelamedu Aerodrome)	1130	28	(Blank)	0
475	Coimbatore (Peelamedu Aerodrome)	1730	28	(Blank)	0
475	Honavar	0830	1	Honavar	Honavar
476	Bellary	0830	15	18.1	8.1
476	Bellary	1730	15	17.5	7.5
477	Trivendrum	0530	19	1	12
477	Katmandu (Hyaromet)	0830	1	Katmandu	Katmandu (Hyaromet)
478	Trincomalee	0830	7	(Not clear)	27.9
478	Trincomalee	1730	7	(Not clear)	30.2
478	Batticaloa	1730	7	(Not clear)	29.1
479	Teuri	1130	2	1130	* 1130
479	Wallungchung Gola	0830	1	Wallungchung Gola	Wallungchung Gola
479	Wallungchung Gola	1730	2	1730	+ 1730

Page No.	Station	Time in I.S.T.	Ht. in Km.	Entry under Column	Existing entry	Correct entry
481	Santa Cruz			Height of anemometer (in metres)	14	27
482	Annedabad	2330	3.0	D	242	242
483	Asansol	2330	1.5	V	11.3	11.8
487	Gauhati	0530*	4.5	v	54.2	4.2
491	Nagpur	1730*	3.6	v	5.	5.1
491	Nagpur	1730*	5.4	v	2.	2.6
491	Nagpur	1730*	6.0	v	3.	3.4
491	Nagpur	1730*	7.2	v	1.	1.7
491	Nagpur	1730	9.0	v	7.	7.3
494	Udaipur	2330	Surface	v	1.	1.4

SG. 17-9

TABLE I—DIVISIONAL AND SUB-DIVISIONAL MEANS—SEPTEMBER, 1958. (BHADRA 10—ASVINA 8, 1880 SAKA)

	Rainfall (millimetres)	Cloud										Cloud													
		Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity %	0830 hrs. I.S.T.	1730 hrs. I.S.T.	0830 hrs. I.S.T.	1730 hrs. I.S.T.	0830 hrs. I.S.T.	1730 hrs. I.S.T.	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity %	0830 hrs. I.S.T.	1730 hrs. I.S.T.	0830 hrs. I.S.T.	1730 hrs. I.S.T.						
1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9	1	2	3	4				
Division																									
1. Assam (Including Manipur, Tripura)	218.0 -49.7	81 +1.3	32.6 +0.7	25.0 +0.7	83 -2	80 -0.4	5.5 4.4												220.1 +153.5	330 -2.5	31.5 +0.4	24.0 +15	85 80	5.1 2.5	4.8
2. West Bengal	321.8 +28.4	110 -0.1	31.8 +0.3	25.9 0	83 +0.2	81 +0.2	5.3 5.3												273.7 +72.1	136 -1.1	29.1 +0.6	23.1 +6	87 78	6.3 +1.9	6.4
3. Orissa	313.6 +86.1	138 -0.3	31.3 +0.2	25.7 +0.2	85 +3	83 +1.1	6.1 6.9												273.3 +67.3	133 -0.7	30.2 +0.4	23.4 +5	86 73	5.6 +0.6	5.7
4. Bihar	239.6 +26.6	112 +0.2	31.6 +0.5	25.1 +0.5	83 +3	81 +0.7	5.5 5.7												137.2 -24.1	85 -0.3	32.1 +0.1	24.6 +2	80 71	5.8 +0.6	6.4
5. Uttar Pradesh	212.7 +33.2	118 -0.6	32.2 +0.8	25.0 +0.8	84 +6	78 +1.5	5.3 5.3											56.2 -44.2	56 +0.3	33.6 +0.6	24.8 +0.6	71 -3	62 +0.5	5.7	
6. Punjab (India) (Including Himachal Pradesh and Delhi)*	304.1 +174.6	235 -1.8	32.9 +0.7	24.5 +0.7	84 +13	72 +2.3	4.5 4.5											145.8 -36.8	80 -0.4	28.8 +0.1	20.8 +2	85 79	6.2 5.2	6.4	
7. Jammu and Kashmir	117.3 +75.5	281 -1.3	23.8 +0.8	12.6 +0.8	73 +2	61 +2.2	4.5 3.7											43.9 -126.5	26 +0.6	29.7 +0.5	24.2 +0.5	84 -1	79 +0.7	5.6	
																		Mean of India	226.7 +47.8	127 -0.7	31.1 +0.4	24.0 +5	84 74	5.6 +1.2	5.7
Sub-division																									
1. Bay Islands	427.4 -14.6	97 +1.1	29.5 +0.9	24.1 +0.9	85 +1	90 +0.6	6.8 6.2											Sub-division—(Contd.)	290.9 +70.9	132 -0.5	29.7 +0.9	23.6 +4	86 77	3 6.0	6.7
2. Assam (Including Manipur, Tripura)	218.0 -49.7	81 +1.3	32.6 +0.7	25.0 -0.7	83 -2	80 -0.4	5.5 4.4											16. Madhya Pradesh (East)	452.5 +315.7	331 -1.7	30.3 +0.4	24.1 +9	90 77	6.0 +1.1	5.8
3. Sub-Himalayan West Bengal	361.3 -115.1	76 -0.1	31.3 +0.6	25.7 +0.6	83 -1	75 +0.3	4.5 4.1										18. Saurashtra and Kutch	252.7 +188.4	393 -1.0	31.3 +0.6	24.4 +7	87 75	5.3 +1.1	5.2	
4. Gangetic West Bengal	307.1 +82.2	137 -0.1	31.9 +0.3	26.0 +0.3	83 +1	83 +0.1	5.5 5.7										19. Konkan	402.7 +37.8	110 +0.1	29.3 +0.4	24.5 +1	87 81	6.1 0	5.6	
5. Orissa	313.6 +86.1	138 -0.3	31.3 +0.2	25.7 +0.2	85 +3	83 +1.1	6.1 6.9										20. Maharashtra	151.4 -66.6	69 -0.4	29.9 +0.5	21.1 +3	82 75	5.0 -0.1	5.8	
6. Chota Nagpur	303.7 +98.4	148 -0.1	30.8 +0.4	24.1 +0.4	84 +3	81 +0.9	5.9 6.4										21. Vidarbha	172.8 -9.8	95 -0.8	30.7 +0.2	23.3 +0.2	83 79	5.8 +1.1	6.5	
7. Bihar	204.1 -13.3	94 +0.5	32.5 +0.6	26.1 +0.6	83 +3	81 +0.4	5.1 5.1										22. Coastal Andhra Pradesh	157.2 -38.0	105 -0.4	32.7 +0.1	25.6 +2	79 75	6.2 +0.8	6.7	
8. Uttar Pradesh (East)	195.3 +0.8	100 -0.4	32.5 +0.5	25.3 +0.5	83 +3	77 +1.3	4.9 4.9										23. Telangana	104.0 -88.1	54 -0.3	30.4 +0.3	22.9 +2	81 70	5.0 +0.1	6.1	
9. Uttar Pradesh (West)	232.3 +69.7	142 -0.9	31.8 +1.1	24.7 +1.1	85 +9	78 +1.7	4.7 5.4										24. Rayalaseema	130.5 -24.2	84 -0.4	32.8 +0.1	24.1 +0.1	77 72	6.0 +0.6	5.8	
10. Punjab (India) (Including Delhi.)	304.1 +174.6	235 ..	32.9 -1.8	24.5 +0.7	84 +13	72 +2.3	4.5 4.5										25. Madras State	56.2 -44.2	56 +0.3	33.6 +0.6	24.8 +0.6	71 -3	62 +0.5	5.7	
11. Himachal Pradesh	186.9 ..	281 ..	29.5 ..	21.0 ..	89 ..	71 ..	5.9 6.1										26. Coastal Mysore	306.4 -14.4	96 -0.1	28.9 -0.1	23.3 +3	93 82	6.7 6.2	6.5	
12. Jammu and Kashmir	117.3 +75.5	281 -1.3	23.8 +0.8	12.6 +0.8	73 +2	61 +2.2	4.5 3.7										27. Mysore (North)	82.8 -14.4	53 -0.1	30.0 -0.1	21.1 +3	82 79	6.2 +0.7	6.7	
13. Rajasthan (West)	211.8 +183.8	756 -2.5	33.5 +0.5	24.7 +0.5	86 +18	66 +2.5	4.5 4.3										28. Mysore (South)	128.6 -74.4	92 -0.1	27.7 -0.1	19.7 +1	84 81	6.1 0	6.1	
14. Rajasthan (East)	228.4 +123.2	217 -2.5	30.0 -2.5	23.4 +0.3	85 +13	74 +2.5	5.6 5.2										29. Kerala	43.9 -12.1	26 +0.6	29.7 +0.5	24.2 +3	84 79	5.2 +0.3	5.6	
15. Madhya Pradesh (West)	260.3 +73.1	139 -1.5	29.2 +0.4	22.7 +0.4	88 +8	76 +2.1	6.3 6.2										30. Arabian Sea Islands	-126.5 57.0 98.7	37 +1.1	+0.6 +0.7	+0.5 +0.7	-1 77 -3	-0.1 4.9 +0.3	6.4	

Note :—The entries in the second line for each division and sub-division indicate departures from normal.

*Data of Himachal Pradesh not included.

452 TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER.—SEPTEMBER, 1958. (BHADRA 10—ASVINA 8, 1880 SAKA)

Division and station	Air temperature in °C								Rainfall in millimetres						No. of rainy days (2.5 mm. or more)			Wind speed, km. per hour			Weather phenomena—No. of days with								
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Bay Islands																													
Maya Bandar	26.7	..	28.8	6,14	24.4	..	20.5	27	112.5	341.8	..	48.4	20	19	..	12.9	8.9	..	21	0	0	3	0	0	0	0	0	0	
Long Island	29.8	..	31.5	18	24.4	..	22.8	28	258.5	361.9	..	65.0	26	18	..	2.3	1.4	..	21	0	0	0	0	0	0	0	0	0	
Port Blair	29.5	+1.1	31.2	15	24.1	+0.9	21.9	29	235.1	427.4	-14.6	109.5	29	16	-5.9	..	..	..	21	0	0	2	0	0	0	0	0	0
Car Nicobar	30.6	..	31.9	17	24.3	..	22.1	20	106.0	313.8	..	132.5	24	14	..	7.5	4.8	..	17	0	0	2	0	0	0	0	0	0	
Nancowry	28.0	..	29.5	15,24	24.6	..	22.5	28	52.2	155.9	..	43.1	28	15	..	10.8	8.7	..	19	0	0	0	0	0	0	0	0	0	
Kondul	29.1	..	30.0	4	24.9	..	22.8	28	57.6	256.2	..	67.0	13	18	..	9.5	8.4	..	23	0	0	0	0	0	0	0	0	0	
Assam (Including Manipur, Tripura)																													
Pasighat	31.8	..	36.3	11	23.3	..	20.6	19	159.9	705.2	..	180.3	18	9	..	4.7	5.1	..	11	0	0	5	2	0	0	0	0	0	
Digboi	32.5	..	36.6	11	24.1	..	21.1	18	45.2	212.0	..	50.8	1	11	..	..	..	..	16	0	0	0	0	0	0	0	0	0
Dibrugarh	32.5	+2.3	36.6	10,11	24.2	+0.6	21.2	19	41.0	352.0	+0.2	58.8	25	15	-0.4	2.9	2.0	+0.6	17	0	0	7	0	0	0	0	0	0	
Dibrugarh (Mohanbari Aerodrome)	32.0	..	35.9	11,12	24.0	..	21.6	25	68.4	222.3	..	37.4	6	11	..	3.8	2.3	..	14	0	0	10	0	0	0	0	0	0	
North Lakhimpur	32.2	..	35.8	10	24.3	..	22.4	19	70.5	373.5	..	105.2	18	14	..	7.0	5.9	..	15	0	0	7	0	0	0	0	0	0	
Sibsagar	32.7	+1.8	36.4	10,11	25.5	+0.9	23.2	28	39.6	232.0	-68.5	43.3	28	16	+1.2	4.3	3.7	+0.8	17	0	0	16	0	0	0	0	0	0	
Jorhat	32.6	..	35.8	11	24.9	..	22.6	19	38.7	199.2	..	82.8	6	11	..	..	..	..	15	0	0	10	8	0	0	0	0	0
Golaghat	32.9	..	36.7	11	24.8	..	22.7	12	63.0	197.6	..	96.0	6	9	..	..	..	..	10	0	0	0	0	0	0	0	0	0
Gohpur	32.9	..	36.0	10,11, 23	24.5	..	22.6	19	56.4	221.2	..	50.0	14	9	..	..	..	..	11	0	0	0	0	0	0	0	0	0
Tezpur	33.2	+1.6	36.4	10	25.6	+0.9	23.4	19	25.8	75.5	-134.8	24.4	17	7	-5.7	4.2	3.8	+1.5	11	0	0	7	0	0	0	0	0	0	
Tezpur (P.B.O.)	32.5	..	35.9	21	25.2	..	23.4	19	23.7	113.4	..	58.0	17	7	..	4.8	2.6	..	12	0	0	5	0	0	0	0	0	0	
Majbat	..	..	..	..	..	..	..	..	84.2	157.2	..	64.4	18	7	..	6.7	4.0	..	12	0	0	5	0	0	0	0	0	0
Chaparmukh	34.3	..	37.3	11	26.2	..	24.3	17	25.0	110.2	..	32.5	17	7	..	..	..	..	11	0	0	3	0	0	0	0	0	0
Tangla	33.0	..	36.6	11	24.6	..	22.9	19	77.6	177.0	..	67.6	18	8	..	3.3	2.1	..	8	0	0	0	0	0	0	0	0	0	
Gauhati	32.1	+0.2	35.0	10,11	25.4	+0.8	23.6	18	38.8	145.2	-22.2	41.7	18	8	-1.3	4.2	3.2	+1.1	11	0	0	0	0	0	0	0	0	0	
Gauhati (Bhorjor Aerodrome)	31.6	..	34.0	10	25.1	..	23.6	18	85.8	173.0	..	85.6	18	11	..	4.5	3.0	..	15	0	0	17	0	0	0	0	0	0	
Rangiya	33.2	..	36.8	11	25.5	..	22.9	19	94.9	250.4	..	73.0	18	8	..	6.8	4.3	..	8	0	0	0	0	0	0	0	0	0	
Goalpara	33.2	..	36.6	11	24.2	..	21.6	17	114.2	404.8	..	221.2	17	6	..	4.5	3.0	..	8	0	0	0	0	0	0	0	0	0	
Dhubri	30.9	+1.1	33.7	13	26.3	+1.1	23.9	17	262.2	436.0	+79.9	177.4	17	6	-6.5	6.3	4.9	-0.4	7	0	2	0	0	0	0	0	0	0	
Dhubri (Rupsi Aerodrome)	32.2	..	34.8	11,28	25.2	..	22.3	26	138.2	423.2	..	201.8	17	9	..	5.9	3.6	..	15	0	0	13	0	0	0	0	0	0	
Tura	29.5	..	37.2	21	23.6	..	22.2	24	247.4	391.5	..	90.5	17	17	..	4.6	5.2	..	18	0	0	0	0	0	0	0	0	0	
Agartala Kailashar (C.W.O.) (R)	32.2	..	33.7	9	24.6	..	22.2	19	54.9	323.2	..	71.1	19	14	..	8.0	6.1	..	18	0	0	21	0	0	0	0	0	0	
Silchar	31.8	-0.3	34.6	11,29	25.0	+0.4	22.1	18	144.0	360.8	-28.3	97.0	18	12	-4.2	0	0	-2.1	16	0	0	7	0	0	0	0	0	0	
Silchar (Kumbhigram Aerodrome)	32.7	..	36.6	10	24.2	..	22.2	18,30	158.5	371.8	..	106.7	18	12	..	6.9	5.9	..	18	0	0	16	0	0	0	0	0	0	
Imphal	29.1	..	31.8	11	20.7	..	18.3	25	51.9	145.5	..	66.3	7	9	..	5.3	3.8	..	15	0	0	4	0	0	0	0	0	0	
Haflong	29.2	..	31.9	11	20.7	..	19.3	30	55.0	259.1	..	50.2	18	15	..	10.3	3.7	..	18	0	1	5	0	0	0	0	0	0	
Lumding	33.4	+2.0	36.3	11	24.3	+0.3	22.2	30	80.3	142.6	-44.9	30.6	8	10	-0.8	2.3	1.1	..	16	0	0	6	0	0	0	0	0	0	
Sub-Himalayan West Bengal																													
Cooch Behar (C.W.O.)	32.1	..	35.3	11	25.2	..	22.8	17	58.1	545.7	-51.7	166.2	20	10	-7.1	5.7	3.8	..	14	0	0	17	4	0	0	0	0	0	
Jalpaiguri	30.3	-0.9	33.3	10	24.8	+0.4	22.8	17	72.0	395.6	-143.0	66.4	18	11	-5.4	7.7	5.9	+3.5	14	0	0	9	0	0	0	0	0	0	
Bagdogra	32.7	..	39.2	9	24.1	..	22.4	29	54.9	422.7	..	78.0	5	10	..	10.9	8.4	..	14	0	0	11	0	0	0	0	0	0	
Malda	32.4	+0.7	34.0	13	26.5	+0.8	23.9	17	80.5	142.5	-150.1	33.2	16	11	-0.6	8.0	7.0	+0.7	12	0	0	9	0	0	0	0	0	0	
Gangetic West Bengal.																													
Dum Dum	32.7	..	35.6	28	25.6	..	23.4	22	110.8	228.1	..	62.0	2	12	..</td														

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER.—SEPTEMBER, 1958. (BHADRA 10—ASVINA 8, 1880 SAKA) 453

Division and station	Air temperature in °C									Rainfall in millimetres						No. of rainy days (2.5 mm. or more)	Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
Orissa—(Contd.)																														
Chandbali . .	30.3	-1.3	34.4	5.6	25.5	-0.2	23.3	25	198.1	280.5	+53.9	92.6	9	15	+0.9	10.6	8.3	+0.1	17	0	0	2	0	0	0	0	0	0	0	
Cuttack . .	31.8	-0.4	35.1	5.7	25.5	+0.1	23.6	24.25	141.8	293.3	+45.4	52.0	9	16	+3.4	7.7	6.3	+3.4	18	0	0	8	0	0	0	0	0	0	0	
Bhubaneswar . .	31.3	..	34.5	5	25.3	..	23.3	24.25	356.4	729.0	..	163.0	9	14	..	14.0	10.4	..	21	0	0	15	0	0	0	0	0	0	0	
Puri . .	31.8	+0.4	34.9	7	26.6	+0.1	23.8	25	118.5	331.5	+101.6	53.0	24	17	+4.9	17.1	15.8	+2.8	18	0	0	11	0	0	0	0	0	0	0	
Gopalpur . .	32.1	+0.7	35.2	20	25.6	-0.2	23.6	25	203.6	293.2	+103.2	57.0	6	14	+4.5	15.3	12.1	+1.6	29	0	0	14	0	0	0	0	1	0	0	
Koraput . .	25.6	..	27.8	21	20.4	..	18.9	19.26	131.1	284.2	..	78.2	14	13	..	..	..	..	18	0	0	0	0	0	0	0	0	0	0
Titilagarh . .	28.1	..	30.6	2	24.3	..	22.5	13	155.8	361.1	..	94.2	9	18	..	4.5	2.8	..	23	0	0	9	0	0	0	0	0	0	0	
Bolangir . .	30.8	..	32.9	5	24.0	..	22.2	3	221.0	570.0	..	82.6	8	18	..	8.5	6.9	..	23	0	0	10	0	0	0	0	0	0	0	
Angul . .	31.2	-0.4	34.4	5	25.5	+0.8	23.3	25	69.5	326.5	+139.8	110.2	25	15	+3.9	11.0	7.8	+1.7	17	0	0	9	0	0	0	0	0	0	0	
Keonjhar . .	29.5	..	32.1	5	23.2	..	22.1	28	72.7	207.3	..	30.7	6	14	..	8.4	6.3	..	21	0	0	8	0	0	0	0	0	0	0	
Sambalpur . .	31.1	-0.4	33.4	5	25.1	+0.2	23.9	21.26	131.8	290.7	+60.8	102.1	9	18	+6.6	7.5	5.5	+1.0	21	0	0	2	0	0	0	0	0	0	0	
Jharsuguda . .	31.3	..	33.8	21	24.5	..	23.3	21.29	188.7	340.9	..	70.7	7	17	..	9.7	7.2	..	21	0	0	19	0	0	0	0	0	0	0	
Chota Nagpur																														
Jamshedpur . .	31.4	-0.8	35.6	6	25.5	+0.2	23.9	25	234.4	392.6	+212.0	160.4	15	18	+6.8	9.5	7.3	+2.3	23	0	0	9	0	0	0	0	0	0	0	
Jamshedpur (P.B.O.) . .	31.3	..	35.1	5	25.0	..	23.4	18	137.6	310.8	..	99.1	15	13	..	3.9	2.6	..	17	0	0	17	0	0	0	0	0	0	0	
Chabasa . .	31.2	-0.6	35.0	4	24.9	+0.5	23.3	7	122.9	255.7	+54.8	90.6	9	13	+1.4	3.8	2.2	-0.4	18	0	0	4	0	0	0	0	0	0	0	
Ranchi . .	29.6	+0.7	33.1	8	22.7	+0.5	20.4	28	143.0	252.3	+16.1	42.6	16	13	+0.7	8.3	5.5	-0.9	15	0	0	0	0	0	0	0	0	0	0	
Ranchi (C.W.O.) . .	28.3	..	31.7	4	22.5	..	21.1	25	154.9	342.0	..	33.8	1	20	..	13.4	11.6	..	23	0	0	12	0	0	0	0	0	0	0	
Daltonganj . .	32.4	+0.3	38.9	5	24.8	+0.7	23.3	15.25	189.8	271.4	+90.0	59.6	15	14	+4.7	8.8	5.4	+0.9	19	0	0	7	0	0	0	0	0	0	0	
Hazaribagh . .	29.3	0	33.0	4	22.6	+0.2	20.9	25	158.4	346.4	+119.3	76.2	16	16	+4.5	11.6	9.2	+0.7	21	0	0	11	2	0	0	0	0	0	0	
Dhanbad . .	30.9	..	35.1	4	24.6	..	23.4	7.15	156.6	312.8	..	82.6	15	14	..	10.5	7.1	..	18	0	0	9	1	0	0	0	0	0	0	
Bihar																														
Purnea . .	32.4	+0.7	34.6	12	26.0	+0.8	22.9	17	162.2	376.1	+81.5	146.3	17	10	-1.5	6.8	4.1	+1.0	12	0	0	3	0	0	0	0	0	0	0	
Forbesganj . .	33.2	..	36.2	13	25.3	..	22.8	17	179.8	408.0	..	101.6	5	13	..	8.2	5.9	..	16	0	0	16	0	0	0	0	0	0	0	
Darbhanga . .	32.8	+1.0	35.6	12	26.4	+0.6	24.2	13	98.9	205.1	-29.6	71.9	4	11	+1.6	8.1	6.7	+2.5	12	0	0	0	0	0	0	0	0	0	0	
Motihari (R) . .																														
Muzaffarpur . .																														
Chapra . .																														
Arrah . .																														
Patna . .	32.5	+0.4	34.2	4.13	26.4	+0.3	23.9	22	82.0	199.0	-19.4	39.6	30	13	+3.8	8.0	7.8	+2.5	15	0	0	3	0	0	0	0	0	0	0	
Patna (Aerodrome) . .	32.2	..	34.2	13	26.1	..	23.9	22	69.2	140.6	..	29.8	30	12	..	9.8	6.5	..	16	0	0	9	0	0	0	0	0	0	0	
Dehri . .	31.8	..	34.4	13	25.9	..	24.3	22	137.3	242.4	+54.7	50.5	20	14	+5.1	7.7	5.2	..	15	0	0	15	0	0	0	0	0	0	0	
Gaya . .	31.9	-0.6	34.5	4	25.8	+0.7	24.0	25	60.2	176.5	-14.0	37.4	16	12	+2.7	12.9	10.8	+3.6	15	0	0	9	0	0	0	0	0	0	0	
Jamui . .	31.9	..	34.7	13	26.0	..	24.1	17	77.8	155.9	..	30.0	8	11	..	9.6	5.7	..	14	0	0	5	0	0	0	0	0	0	0	
Dumka (R) . .																														
Bhagalpur . .	32.7	..	35.3	4	25.8	..	23.1	17	76.7	212.7	..	80.9	16	8	..	7.9	6.1	..	9	0	0	9	0	0	0	0	1	0	0	
Sabour . .	32.8	+1.0	35.3	20	26.1	+0.4	23.8	17	136.8	256.0	+43.7	57.8	6.16	8	-1.8	11.9	8.7	+1.5	13	0	0	12	0	0	0	0	0	0	0	
Uttar Pradesh (East)																														
Gonda . .	32.1	-0.7	33.9	5.12	23.7	-1.4	20.2	23	78.5	214.0	-18.2	94.0	6	9	-1.2	3.8	3.1	-1.9	10	0	0	2	0	0	0	0	0	0	0	0
Nautanwa . .	31.3	..	34.6	10	25.8	..	23.8	30	43.2	133.2	..	44.8	6	8	..	9.3	6.0	..	9	0	0	0	0	0	0	0	0	0	0	
Gorakhpur . .	33.2	+0.8	35.0	4	25.1	-0	22.0	25	74.4	221.8	+5.4	54.0	6	12	+2.7	7.2	4.7	+2.0	15	0	0	0	0	0	0	0	0	0	0	
Azamgarh . .	32.4	..	34.4	4.22	25.9	..	23.5	29	55.6	237.4	..	61.6	16	13</																

454 TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER.—SEPTEMBER, 1958. (BHADRA 10—ASVINA-8, 1880 SAKA)

Division and station	Air temperature in °C								Rainfall in millimetres						No. of rainy days (2.5 mm. or more)		Wind speed, km. per hour		Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830–1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830–1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.3 mm. or more)	Snow or sleet	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
Uttar Pradesh (West)																														
Orai . . .	32.3	..	33.9	6days	23.6	..	22.2	5days	51.8	155.0	..	45.0	7	10	..	11.7	7.7	..	14	0	0	0	0	0	0	0	0	0		
Jhansi . . .	31.2	-2.0	33.4	14	24.8	+0.7	23.3	6	65.2	224.8	+74.9	71.0	8	10	+3.0	5.1	5.1	+0.3	13	0	0	1	0	0	0	0	0	0		
Agra . . .	31.6	-2.2	34.3	14	25.0	+0.4	22.6	9	132.8	273.0	+156.7	65.0	30	14	+8.4	5.8	5.0	-0.5	18	0	0	1	0	0	0	0	0	0		
Agra (Aerodrome)	32.0	..	34.1	6	25.0	..	23.2	24.30	127.2	221.3	..	63.7	30	12	..	..	..	..	21	0	0	9	0	0	0	0	0	0
Mainpuri . . .	33.0	-0.8	34.7	5,6	25.4	+1.2	24.0	18	63.9	270.6	+141.3	117.2	7	11	+4.6	4.6	3.3	+0.6	16	0	0	0	0	0	0	0	0	0		
Aligarh . . .	32.6	-0.9	35.9	8	24.8	+0.4	21.8	30	107.3	191.0	+56.4	31.3	30	11	+4.9	10.5	7.4	+1.1	14	0	0	4	0	0	0	0	0	0		
Bareilly . . .	32.7	0	34.6	13,14	25.5	+1.2	22.4	25	84.6	133.2	-57.3	24.6	28	10	+3.2	8.9	5.9	+3.3	12	0	0	8	0	0	0	0	0	0		
Meerut . . .	32.1	-1.1	35.0	14	25.1	+1.4	22.6	29.30	..	140.6	-8.2	33.5	15	7	+1.9	..	7.3	..	13	0	0	0	0	0	0	0	0	0		
Najibabad . . .	32.1	..	34.6	25	23.8	..	21.2	17	142.4	299.6	..	106.4	28	9	..	4.4	2.8	..	11	0	0	5	0	0	0	0	0	0		
Roorkee . . .	32.2	-0.3	35.0	6,22	24.4	+1.6	21.3	28.29	170.7	281.9	+120.1	113.0	29	8	+2.0	7.3	4.3	+1.6	10	0	0	5	0	0	0	0	0	0		
Dehra Dun . . .	29.1	-0.2	31.9	4	22.3	+1.5	19.9	29	122.4	343.6	+73.9	62.8	6	18	+7.1	3.6	2.3	-0.3	21	0	0	11	0	0	0	0	0	0		
Punjab (India) (Including Delhi)																														
New Delhi . . .	32.9	-0.8	35.3	1	25.1	+0.8	22.6	29	66.2	288.7	+165.8	115.2	29	13	+8.4	13.9	10.5	+1.5	14	0	0	8	0	0	0	0	0	3	0	
Hissar . . .	33.2	-2.7	38.1	1	24.3	+0.7	21.8	30	75.0	228.4	+157.0	54.0	15	9	+5.9	8.7	7.8	+1.2	13	0	0	7	0	0	0	0	0	0		
Karnal . . .	32.1	..	36.1	19	24.1	..	21.1	30	113.2	319.5	..	109.3	27	9	..	..	..	..	11	0	0	6	0	0	0	0	0	0
Patiala . . .	32.6	..	36.3	1	24.2	..	20.4	11	84.9	236.3	+13.5	72.2	28	8	+2.0	10.2	7.0	..	16	0	0	5	0	0	0	0	0	0		
Ambala . . .	33.2	-1.2	36.4	25	24.3	+1.0	21.2	29	122.0	347.6	+217.8	89.2	8	15	+10.3	8.1	5.3	+2.8	16	0	0	0	0	0	0	0	0	0		
Ambala (Aero-drome)	32.2	..	35.6	25	24.0	..	21.1	29	104.7	274.4	..	65.0	27	12	..	..	..	..	14	0	0	9	0	1	0	0	0	0
Chandigarh . . .	32.2	..	37.3	1	23.2	..	19.9	29	116.4	347.8	..	109.5	8	10	..	..	..	..	14	0	0	0	0	0	0	0	0	0
Ludhiana . . .	32.5	-2.4	38.3	1	24.2	+0.4	21.2	26.27	203.6	419.4	+319.1	98.5	11	13	+9.2	5.6	3.7	+1.8	13	0	0	0	0	0	0	0	0	0		
Ferozepur . . .	31.5	..	36.6	1	24.0	..	21.2	27	159.2	400.6	..	209.6	3	10	..	3.8	2.6	..	12	0	0	0	0	0	0	0	0	0		
Amritsar . . .	31.9	..	36.6	1	23.5	..	20.4	27	127.5	296.9	..	95.0	4	9	..	10.9	8.0	..	13	0	0	3	0	0	0	0	0	0		
Pathankot . . .	31.3	..	35.7	1	22.4	..	18.1	17	139.8	398.9	..	75.8	28	18	..	3.2	2.4	..	18	0	0	2	0	0	0	0	0	0		
Pathankot (Aerodrome)	30.8	..	35.3	1	23.0	..	18.8	16	109.1	393.3	..	89.2	28	17	..	8.0	7.7	..	18	0	0	9	0	0	0	0	0	0		
Himachal Pradesh																														
Bilaspur . . .	30.2	..	33.7	7	22.2	..	18.6	17	111.4	189.7	..	39.8	22	12	..	4.9	3.4	..	17	0	0	8	7	0	0	0	0	0		
Mandi . . .	28.8	..	33.4	7	19.8	..	15.0	17	60.3	184.2	..	23.4	8	17	..	2.6	1.8	..	20	0	0	9	0	0	0	0	0	0		
Jammu and Kashmir																														
Srinagar . . .	26.5	-2.1	33.3	8	14.5	+2.6	9.2	30	20.5	44.8	+5.6	11.0	10	8	+4.5	5.9	4.9	+1.4	11	0	0	3	0	0	0	0	0	0		
Gulmarg . . .	17.6	+0.1	22.8	8	7.0	+0.8	1.5	30	49.8	110.0	+43.5	28.8	28	9	+3.7	6.9	4.0	-0.7	15	0	0	5	0	0	0	0	0	0		
Sonamarg*	128.0	..	40.0	4	5	
Dras	8.8	+6.3	3.8	28	3	+2.7	3	
Kargil	9	7	+6.1	4.4	4.3	+1.4	10	0	0	0	0	0	0	0	0	0	0	
Leh . . .	19.7	-1.2	27.2	8	5.6	+0.2	3.3	11.17	8.9	47.9	+41.0	15.2	9	7	10	0	0	0	0	0	0	0	0	0	0	
Skardu (R)
Gurez
Gilgit (R)
Misgar (R?)
Jammu . . .	31.5	+1.8	36.5	1	23.4	-0.5	18.4	29	..	327.4	238.3	80.6	29	11	+6.9	14	0	0	2	0	0	0	0	0	0	0	
Gund	70.0	..	10.8	27	10
Pandras . . .	..	..	..	..	..	..	..	..	..	61.9																		

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—SEPTEMBER, 1958. (BHADRA 10—ASVINA 8, 1880 SAKA) 455

Division and station	Air temperature in °C								Rainfall in millimetres						No. of rainy days (2.5 mm. or more)			Wind speed, km. per hour		Weather phenomena—No. of days with									
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.3 mm. or more)	Snow or sleet	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Rajasthan (East)																													
Pilani	33.6	..	38.3	4,5,6	25.8	..	20.5	29	52.8	154.2	..	45.7	2	13	..	11.2	11.9	..	14	0	0	0	0	0	0	0	0	0	
Alwar	31.8	..	33.4	4 days	24.8	..	22.8	27,29	200.6	436.2	..	70.0	28	12	..	6.6	4.8	..	17	0	0	3	0	0	0	0	0	0	
Sikar	31.7	..	35.8	1	23.6	..	20.9	22	33.6	99.5	..	26.2	12	10	..	13.3	9.8	..	14	0	0	0	0	0	0	0	0	0	
Jaipur	30.8	-3.1	33.9	1	23.7	+1.0	20.7	20	60.7	138.4	+56.6	34.6	2	9	+4.3	10.1	8.2	+1.8	14	0	0	7	1	0	0	0	0	0	
Jaipur (Sanganer Aerodrome)	30.9	..	33.4	1	23.4	..	20.8	30	67.5	135.2	..	34.2	2	11	..	..	..	..	13	0	0	5	0	0	0	0	1	0
Dholpur	31.9	..	33.9	14,15	24.6	..	21.4	20	113.2	265.0	..	46.2	1	15	..	8.8	6.0	..	18	0	0	8	0	0	0	0	0	0	
Ajmer	29.3	-2.9	33.4	1	23.1	-0.5	19.7	20	152.5	291.1	+222.5	63.0	3	8	+4.0	11.8	9.6	+3.0	13	0	0	4	0	0	0	0	0	0	
Kotah	30.9	-2.6	33.2	16	24.4	-0.3	22.3	30	113.4	239.8	+120.2	62.0	9	9	+3.3	10.3	8.0	+3.8	16	0	0	3	0	0	0	0	0	0	
Chambal	30.4	..	32.2	1,2,3	23.2	..	20.8	20	237.8	418.4	..	105.0	9	10	..	11.0	7.4	..	13	0	0	8	0	0	0	0	0	0	
Jhalawar	30.0	-1.9	32.8	23	23.7	+0.8	21.7	30	132.2	236.6	+78.6	52.4	12	10	+3.1	11.0	8.3	+3.3	13	0	0	1	0	0	0	0	0	0	
Udaipur	29.0	-1.9	32.3	1	22.1	+0.3	19.2	20	74.3	235.8	+138.0	70.2	25	8	+2.6	5.3	3.7	..	14	0	0	1	0	0	0	0	0	0	
Erinpura (Jawai Dam.)	30.5	..	37.2	1	24.1	..	22.6	18	128.2	220.6	..	58.8	12	11	..	8.1	7.8	..	12	0	0	0	0	0	0	0	0	0	
Madhya Pradesh (West)																													
Gwalior (P.B.O.)	30.9	-1.4	32.8	14	24.6	+0.2	23.4	15	103.5	246.4	+59.2	84.5	8	10	+2.6	10.5	7.1	..	15	0	0	11	1	0	0	0	0	0	
Sheopur Kalan	30.9	..	32.7	1	24.1	..	22.3	20	63.2	165.4	..	37.4	1	9	..	10.2	7.5	..	14	0	0	2	0	0	0	0	0	0	
Guna	29.0	-1.6	31.6	23	23.0	+1.1	21.0	20,30	62.1	219.3	-19.7	60.2	29	11	+2.4	14.2	10.3	..	17	0	0	4	0	0	0	0	0	0	
Rajgarh	29.8	..	33.7	3	23.2	..	20.7	30	59.1	215.1	..	69.6	11	8	..	15.1	10.9	..	8	0	0	2	0	0	0	0	0	0	
Neenuch	28.7	-2.4	32.0	24	22.3	+0.5	20.1	20,30	116.4	270.2	+144.0	55.0	9	11	+4.7	13.6	11.0	+1.3	16	0	0	3	1	0	0	0	0	0	
Ratlam	28.6	..	31.8	2	22.0	..	19.2	29	135.0	640.6	..	191.3	11	18	..	8.8	6.5	..	21	0	0	1	0	0	0	0	0	0	
Alirajpur	29.3	..	31.4	1	23.2	..	21.5	19	80.3	271.9	..	121.9	2	13	..	13.5	9.9	..	18	0	0	0	0	0	0	0	0	0	
Indore	28.0	-1.7	31.2	24	21.5	+0.7	19.8	21	115.0	303.4	+139.3	94.2	2	11	+2.6	22.1	18.8	..	18	0	0	4	0	0	0	0	0	0	
Bhopal (Bairagarh)	28.8	-1.1	31.1	23	21.9	..	19.9	30	67.1	402.7	+138.0	79.5	11	13	+2.8	15.2	12.2	+1.7	17	0	0	5	0	0	0	0	0	0	
Khandwa	29.8	-1.5	32.9	23	22.9	+0.1	21.8	16	97.6	288.0	+143.5	95.4	25	9	+1.9	9.4	10.8	+2.8	14	0	0	0	0	0	0	0	0	0	
Hoshangabad	30.0	-0.4	32.4	22	24.6	+1.7	23.8	21,27	70.4	186.4	-25.9	37.4	2	12	+2.5	..	..	..	18	0	0	3	0	0	0	0	0	0
Betul	27.4	..	30.2	14	21.3	..	20.1	21	84.8	276.5	..	71.8	10	11	..	9.3	6.5	..	15	0	0	2	0	0	0	0	0	0	
Chhindwara	27.7	..	30.1	14	21.6	..	19.2	27	116.5	231.9	..	40.2	10	13	..	10.8	7.3	..	17	0	0	2	0	0	0	0	0	0	
Seoni	27.4	-2.0	31.0	14	21.9	+0.6	20.4	27	92.7	269.1	+50.9	58.2	10	15	+4.1	7.9	5.4	+0.6	21	0	0	4	0	0	0	0	0	0	
Sagar	28.6	-1.4	30.6	1	21.9	+0.3	20.7	27	43.2	209.1	+16.1	61.0	1	13	+3.4	10.9	9.0	..	17	0	0	6	0	0	0	0	0	0	
Nowrang*	32.0	-0.4	34	7	24.1	+0.3	22	28	89.1	136.7	-10.9	52.2	23	10	+2.8	..	..	..	16	..	..	..	..	..	..	..	..	..
Madhya Pradesh (East)																													
Sutna	31.0	-0.2	32.8	13	24.3	+0.5	22.2	26	66.3	214.7	+39.7	97.4	22	13	+4.1	8.8	6.2	+0.9	17	0	0	8	0	0	0	0	0	0	
Sidhi	31.4	..	34.4	1	23.8	..	22.1	3	187.8	365.3	..	85.2	15	19	..	9.6	6.5	..	21	0	0	7	0	0	0	0	0	0	
Umaria	30.3	+0.1	35.6	7	23.3	+0.5	21.4	27	102.0	281.1	+49.2	55.8	24	14	+3.6	7.4	5.4	+0.3	22	0	0	5	0	0	0	0	0	0	
Jabalpur	30.2	-0.4	33.4	26	23.7	+1.3	22.3	20	133.6	270.0	-56.4	54.2	1	12	+2.3	8.2	5.5	+2.0	17	0	0	6	0	0	0	0	0	0	
Mandla	29.5	..	31.9	13,14	22.3	..	21.0	17,18, 28	117.2	226.3	..	38.6	16	14	..	67.1	3.8	..	16	0	0	8	0	0	0	0	0	0	
Pendra	28.1	-0.6	30.7	6	22.2	+0.8	20.8	20,26	156.8	341.2	+140.5	62.0	16	23	+11.7	8.4	6.7	..	26	0	0	13	1	0	0	0	0	0	
Ambikapur	29.2	..	31.1	4	22.6	..	20.8	29	134.3	245.0	..	58.8	16	11	..	11.9	8.3	..	18	0	0	9	0	0	0	0	0	0	
Champa	30.5	..	32.9	4	24.3	..	23.4	14	93.2	315.2	..	45.2	16	19	..	7.8	6.1	..	22	0	0	13	0	0	0	0	0	0	
Raigarh	31.1	..	33.8	5	24.6	..	22.8	14	194.4	600.9	..	108.2	13	20	..	7.8	5.6	..	24	0	0	4	0	0	0	0	0	0	
Raipur	30.1	-1.1	32.4	13	24.3	+0.4	21.7	26	218.9	390.7	+195.4	76.0	22	12	+1.7	10.2	8.5	+0.9	18	0	0	9	0	0	0	0	0	0	
Kanker	29.2	-0.7	31.2	7	24.1	+1.4	21.4	26	62.4	195.0	-65.1	54.0	15	9	-3.3	8.4	6.7	+0.9	10	0	0	4	0	0	0	0	0	0	
Jagdalpur (P.B.O.)	28.8	+0.8																											

456 TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER.—SEPTEMBER, 1958. (BHADRA 10—ASVINA 8 1880 SAKA)

Division and station	Air temperature in °C								Rainfall in millimetres						No. of rainy days (2.5 mm. or more)	Wind speed per hour km.	Weather phenomena—No. of days with												
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.3 mm. or more)	Snow or sleet	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Saurashtra and Kutch—(Contd.)																													
Dwarka . .	29.2	-0.4	31.5	1	25.7	+0.3	22.9	15	22.8	105.2	+67.9	33.4	11	6	+4.0	20.7	19.8	+6.1	10	0	0	0	0	0	0	0	0	0	
Porbander . .	30.0	..	32.7	1	25.6	..	23.3	15	19.6	81.2	..	23.6	15	7	..	19.4	16.6	..	11	0	0	0	0	0	0	0	0	0	
Porbander (Aero-drome) . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0	0	1	0	0	0	0	0	0
Jamnagar . .	31.5	-0.4	34.2	10	24.5	+0.9	22.2	22.30	11.8	194.0	+137.4	106.1	13	8	+5.3	..	..	..	11	0	0	4	0	0	0	0	0	0
Rajkot (Aero-drome) . .	31.5	-1.7	34.7	2	22.9	+0.3	20.6	30	229.4	454.4	+369.6	165.0	13	11	+6.1	28.2	22.5	+11.2	13	0	0	3	0	0	0	0	0	0	
Surendranagar . .	32.7	..	37.7	2	24.6	..	22.6	19	122.0	226.6	..	112.0	13	10	..	18.4	16.8	..	11	0	0	0	0	0	0	0	0	0	
Bhavnagar . .	32.1	-1.5	34.5	5	24.3	+0.5	22.4	30	113.6	199.6	+101.6	54.0	11	10	+4.3	14.1	11.9	+3.7	12	0	0	4	0	0	0	0	0	0	
Bhavnagar (Aero-drome) . .	32.5	..	35.1	5	24.6	..	23.3	20	63.6	169.1	..	50.0	28	9	..	(e)	19.5	19.2	..	14	0	0	3	0	0	0	0	0	0
Mahuva . .	31.2	..	..	..	23.8	..	22.2	20.25	65.2	135.2	..	53.4	10	7	..	17.7	12.3	..	14	0	0	0	0	0	0	0	0	0
Keshod . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	18.7	..	..	0	0	3	4	0	0	0	0	0
Veraval . .	29.2	..	31.2	24	25.1	..	23.1	13	321.1	417.1	+353.8	215.8	12	9	+5.1	22.7	22.7	..	13	0	0	2	0	0	0	0	0	0	
Konkan																													
Dahanu . .	29.1	-0.1	30.9	8	24.7	+0.3	22.9	22	203.3	910.3	574.0	481.0	1	15	+1.0	24.8	20.8	+4.1	21	0	0	0	0	0	1	0	0	0	
Bombay (Colaba) . .	30.2	+0.5	31.5	6,22	24.9	+0.6	22.0	29	123.3	353.1	+89.2	110.2	29	19	+6.3	14.4	12.8	+1.5	21	0	3	0	0	0	0	1	0	0	
Bombay (Santa-cruz Aerodrome) . .	29.5	0	30.7	7	24.3	+0.9	21.8	24	83.2	478.0	+214.1	98.7	29	16	+3.3	20.7	15.6	..	24	0	1	0	0	0	0	3	0		
Alibag . .	29.3	+0.1	30.8	18	24.6	+0.2	22.8	29	..	337.7	+71.8	104.4	29	13	-1.5	..	19.6	+5.4	22	0	0	0	0	0	0	0	0	0	
Harnai . .	28.4	-0.3	29.6	18	24.7	+0.6	23.2	25	37.9	236.8	-355.8	37.4	1	17	-1.8	14.2	12.5	-1.8	20	0	0	0	0	0	0	0	0	0	
Ratnagiri . .	29.0	..	30.0	25	24.1	..	22.9	4	56.0	255.7	-44.5	50.0	4	15	0	..	..	..	22	0	0	0	0	0	0	0	0	0
Devgad . .	29.1	+0.4	31.2	30	24.0	-0.2	22.3	29	79.2	247.6	-284.0	39.6	1	16	-2.8	15.7	14.0	-2.1	20	0	0	0	0	0	0	0	0	0	
Vengurla . .	29.0	..	30.8	22	23.5	..	22.6	4	56.1	226.1	..	36.6	15	17	..	11.0	6.7	..	20	0	0	1	1	0	0	0	0	0	
Maharashtra																													
Nandurbar . .	29.9	..	32.4	22	23.6	..	22.3	27	65.4	217.2	..	91.5	2	12	..	11.8	9.4	..	21	0	0	0	0	0	0	0	0	0	
Jalgaon . .	31.1	..	33.4	25,27	23.1	..	21.0	18	50.6	142.6	-10.1	79.0	1	7	-0.7	18.4	13.3	..	15	0	0	1	0	0	0	0	0	0	
Malegaon . .	30.3	-1.2	33.2	21	21.8	+0.6	19.3	30	18.3	46.5	-100.6	27.7	1	3	-4.7	15.8	11.1	+1.6	5	0	0	0	0	0	0	0	0	0	
Deolali . .	26.9	..	30.6	24	20.9	..	18.9	21	75.0	130.3	..	26.9	2	11	..	18.5	14.0	..	15	0	0	0	1	0	0	0	0	0	
Aurangabad . .	29.3	-0.8	31.8	30	20.9	+0.2	18.9	26,27	43.4	139.1	-30.8	76.7	1	4	-5.0	20.6	15.4	+4.3	12	0	0	1	0	0	0	0	0	0	
Aurangabad (Chikalthana Aerodrome) . .	29.3	..	31.6	23	20.4	..	18.2	27	22.6	119.6	..	78.8	1	4	..	21.2	15.8	..	10	0	0	2	0	0	0	0	0	0	
Khandala . .	..	..	..	..	..	..	..	..	..	847.5	+152.8	129.0	14	23	+1.3	..	..	..	24	..	..	..	..	..	..	..	..	..
Ahmednagar . .	29.5	-0.6	32.7	24	20.1	+0.2	16.8	7	17.5	27.3	-138.8	13.9	5	4	-4.6	12.5	8.3	-1.7	5	0	0	0	0	0	0	0	0	0	
Parbhani . .	31.1	..	32.9	19,20	22.0	..	19.8	27	17.4	46.9	-157.6	18.8	1	5	-4.6	14.4	10.8	..	9	0	0	0	0	0	0	0	0	0	
Poona . .	29.1	-0.1	31.9	24	21.3	+0.8	20.1	18,20	9.9	29.8	-104.6	7.2	2	6	-1.6	8.3	5.3	-5.5	10	0	0	0	0	0	0	0	0	0	
Poona (Lohagaon Aerodrome) . .	28.6	..	31.1	24	20.2	..	18.3	21	19.7	39.3	..	10.9	9	5	..	..	..	..	12	0	0	0	0	0	0	0	0	0
Baramati . .	30.6	..	34.5	30	20.8	..	19.3	3,18	23.6	40.9	..	24.2	6	4	..	16.3	13.9	..	6	0	0	0	0	0	0	0	0	0	
Jeur . .	31.2	..	33.9	25	20.8	..	17.3	26	9.3	19.9	..	6.2	1	3	..	17.0	13.0	..	5	0	0	0	0	0	0	0	0	0	
Sholapur . .	31.5	0	34.7	22	21.9	+0.2	20.1	8	9.0	60.3	-133.5	41.0	5	4	-5.1	13.6	10.2	-0.1	12	0	0	2	0	0	0	0	0	0	
Miraj . .	29.6	+0.5	32.7	23	20.6	+0.7	18.4	27	8.5	22.4	-76.1	6.8	1	3	-2.7	..	..	..	8	0	0	0	0	0	0	0	0	0
Kolhapur . .	27.8	-0.9	31.0	22	20.3	-0.2	19.0	23	19.0	64.2	-31.6	27.9	1	7	-0.9	17.6	12.6	-0.8	14	0	0	0	0	0	0	0	0	0	
Vidarbha																													
Buldhana . .	26.5	..	28.2	21	20.8	..	19.3	27	15.0	228.6	..	170.4	1	8	..	14.1	12.5	..	12	0	0	0	0	0	0	0	0	0	
Akola . .	31.2	-0.7	34.0	23	23.1	+0.3	21.2	26	13.3	41.4	-105.9	12.0	1	5	-2.6	14.8	10.4	+2.5	9	0	0	0	0	0	0	0	0	0	
Amravati . .	30.2	-1.0	33.2	22	22.7	+0.2	21.0	27	32.8	161.8	+8.4	75.2	1	7	-1.3	14.5	10.4	+3.5	12	0	0	1	0	0	0	0	0		

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER.—SEPTEMBER, 1958.(BHADRA 10—ASVINA 8, 1880 SAKA) 457

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed, km. per hour		Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
I																												
Coastal Andhra Pradesh—(contd.)																												
Masulipatam	31.7	-0.8	33.8	5	26.0	+0.7	24.2	24.25	55.8	105.6	-56.2	24.0	24	9	-0.9	12.5	8.9	+1.7	14	0	0	10	0	0	0	0	0	0
Nidadavolu	29.5	..	32.3	4	25.0	..	23.1	5	37.6	81.4	..	15.2	20	9	..	13.4	9.0	..	12	0	0	10	0	0	0	0	0	0
Kakinada	32.6	+0.5	35.0	5	25.9	+0.3	21.7	22	29.7	59.1	-97.4	35.0	2	5	-3.8	11.4	10.3	+3.5	7	0	0	0	0	0	0	0	0	0
Visakhapatnam	32.2	-0.3	35.2	19	25.4	-0.2	23.3	19	138.3	244.6	+78.2	63.5	11	14	-4.9	11.6	7.7	-1.0	21	0	0	18	0	0	0	0	1	0
Calingapatam	32.0	-0.1	36.2	8	25.8	0	24.4	17.24, 25	64.2	251.8	+75.8	69.3	30	13	+3.9	9.0	8.9	+1.7	16	0	0	2	0	0	0	0	0	0
Telangana																												
Ramagundam	32.1	..	37.3	23	24.8	..	23.3	8	58.2	125.5	..	30.7	24	11	..	6.9	4.9	..	17	0	0	1	0	0	0	0	0	0
Nizamabad	30.7	-0.2	32.8	14	22.9	+0.2	21.7	15	21.7	64.4	-161.9	14.1	1	8	-2.0	9.3	6.8	+1.8	11	0	0	0	0	0	0	0	0	0
Mahbubnagar	30.2	..	32.4	14	22.4	..	21.0	25	37.1	126.2	..	51.6	25	8	..	13.0	10.4	..	11	0	0	3	0	0	0	0	0	0
Hyderabad (Bellampet Aerodrome)	29.3	-0.5	31.3	14	22.0	+0.7	20.5	18	16.1	116.7	-47.1	57.9	18	7	-2.5	19.3	17.3	+6.5	15	0	0	2	0	0	0	0	0	0
Hakimpet	28.7	..	30.1	13,14	21.5	..	20.3	25	11.7	84.4	..	18.0	25	9	..	..	..	..	14	0	0	2	0	0	0	0	0	0
Hanamkonda	31.1	-0.1	33.1	13	23.7	+0.1	21.6	18	55.4	131.0	-55.4	38.2	17	10	+0.9	12.9	9.0	+2.1	10	0	0	2	0	0	0	0	0	0
Bhadrachallam	32.5	..	36.1	29	24.4	..	22.8	25	33.4	210.4	..	27.2	30	16	..	6.7	4.7	..	18	0	0	2	0	0	0	0	0	0
Khammameth	32.3	..	34.8	14	24.2	..	21.9	15	61.0	169.4	..	44.6	30	9	..	9.3	5.5	..	13	0	0	1	0	0	0	0	0	0
Rayalaseema																												
Aryavaram	29.5	..	31.7	6	21.2	..	18.3	17	2.4	109.8	..	50.0	17	5	..	14.3	10.7	..	5	0	0	1	0	0	0	0	0	0
Cuddapah	33.6	-0.6	36.6	13	24.8	+0.1	21.9	17	5.8	84.8	-68.4	30.2	23	6	-2.3	8.9	7.1	-0.8	10	0	0	0	0	0	0	0	0	0
Anantapur	32.5	..	34.4	17	23.0	..	21.1	21	27.1	151.9	-7.6	82.8	21	9	+2.1	15.9	13.9	..	10	0	0	3	0	0	0	0	0	0
Kurnool	32.0	-0.2	33.4	3	23.3	0	19.6	22	4.5	154.8	+3.4	44.0	22	8	-1.2	17.4	15.0	+5.2	11	0	0	0	0	0	0	0	0	0
Madras State																												
Palayamcottai	32.5	..	37.7	30	26.4	..	25.3	1,2	18.4	18.4	-12.8	18.0	19	1	-1.2	..	..	..	2	0	0	2	0	0	0	0	0	0
Tuticorin	34.0	..	37.9	13	26.4	..	25.4	2,25	0	0	..	0	..	0	..	19.9	16.5	..	0	0	0	0	0	0	0	0	0	0
Pamban	29.6	-2.2	30.8	10	26.4	+0.5	23.7	15	0	0.4	-28.6	0.4	26	0	-1.9	11.9	11.6	-1.0	1	0	0	0	0	0	0	0	0	0
Mathurai	36.2	+1.9	38.1	13	24.6	+0.2	22.3	21	20.1	43.3	-76.1	14.9	22	4	-2.5	6.4	5.9	+0.8	4	0	0	0	0	0	0	0	0	0
Nagapattinam	34.8	+1.1	36.4	13	26.0	+0.8	23.8	14	0	15.8	-68.0	11.0	4	2	-3.1	13.0	10.5	+2.8	3	0	0	0	0	0	0	0	0	0
Tiruchirappalli	35.6	+1.1	37.6	13	24.9	+0.3	21.7	16	0	58.3	-61.6	29.7	16	4	-2.0	24.5	20.8	+3.7	6	0	0	4	0	0	0	0	1	0
Coimbatore	29.5	-2.0	32.1	18	22.2	+0.6	21.1	19,24	14.0	25.2	-15.2	11.2	28	3	-0.3	16.9	14.0	+6.4	4	0	0	5	0	0	0	0	0	0
Coimbatore (Pee-lamedu Aerodrome)	32.7	..	34.1	19	21.9	..	20.8	19	0	11.2	..	10.0	19	1	..	29.8	26.3	..	2	0	0	6	0	0	0	6	0	0
Salem	33.5	+0.3	35.4	12,16	22.9	+0.1	19.9	19	2.0	118.6	-35.6	66.2	19	4	-4.5	9.0	7.1	+2.1	7	0	0	7	0	0	0	0	0	0
Kallakurichi	35.7	..	37.8	9,12	25.0	..	21.9	17	34.6	172.0	..	52.8	17	4	..	7.9	6.6	..	9	0	0	6	0	0	0	0	0	0
Cuddalore	34.4	+0.8	36.6	11	25.3	+0.4	22.6	18	0	137.4	-5.1	111.2	23	2	-4.2	3.2	6.9	+0.6	6	0	0	4	0	0	0	0	0	0
Vellore	34.1	+0.7	36.2	13,15	25.1	+1.0	21.9	19	73.8	116.8	-57.9	40.0	23	5	-3.1	10.5	8.5	+3.5	7	0	0	4	0	0	0	0	0	0
Tambaram (Aerodrome)	35.5	..	37.3	14	25.6	..	23.8	17	28.1	68.9	..	14.7	3,24	5	..	..	..	..	12	0	0	4	0	0	0	0	0	0
Madras	35.1	+0.7	37.2	12	26.2	+1.1	24.7	19	20.5	28.0	-90.9	17.2	21	3	-4.0	14.5	11.9	-1.0	8	0	0	4	0	0	0	0	1	0
Madras (Nungambakkam)	34.6	..	36.7	12	25.8	..	23.7	19	..	41.0	..	9.2	14	8	..	..	7.1	..	11	0	0	2	0	0	0	0	0	0
Coastal Mysore																												
Karwar	27.7	..	28.8	29	22.4	..	21.0	4	97.1	366.1	+60.5	63.8	14	17	+1.5	11.4	8.8	..	21	0	0	0	0	0	0	0	0	0
Honavar	28.9	0	30.6	27	22.8	-0.4	21.6	10	105.9	359.2	-31.5	105.7	15	16	-2.2	2.4	1.6	-2.1	21	0	0	2	0	0	0	0	0	0
Mangalore	29.0	-0.1	30.1	2	23.8	+0.3	22.3	5	68.8	184.0	-82.2	45.0	10	13	-2.5	9.2	7.1	+0.8	21	0	0	2	2	0	0	0	0	0
Mangalore (Bajpe Aerodrome)	29.0	..	30.2	22	22.9	..	21.2	5	103.4	191.4	..	64.2	10	12	..	..	..	..	21	0	0	1	2	0	0	0	0	0
Mysore (North)																												
Bidar	28.7	-0.2	30.6	23	20.8	-0.4	19.4	3,8	16.8	152.2	-64.7	55.8	25	11	0	18.4	14.7	+2.3	17	0	0	0						

458 TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER.—SEPTEMBER, 1958.(BHADRA 10—ASVINA 8, 1880 SAKA)

Division and station	Air temperature in °C									Rainfall in millimetres						No. of rainy days (2.5 mm. or more)	Wind speed, km. per hour			Weather phenomena—No. of days with									
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.3mm. or more)	Snow or sleet	Hail	Thunder head	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Kerala																													
Kozhikode .	29.6	+0.5	30.9	27	24.2	+0.5	23.0	4	6.2	54.2	-147.5	9.2	3	8	-3.7	10.5	8.3	+1.2	11	0	0	0	2	0	0	0	0	0	0
Palghat .	30.5	..	31.9	28,30	23.5	..	22.2	19	23.4	168.7	..	27.5	1	8	..	16.2	12.7	..	9	0	0	2	0	0	0	0	0	0	0
Fort Cochin .	28.6	+0.3	29.6	2	24.7	+0.6	22.9	27	6.5	64.4	-130.4	17.7	27	8	-5.7	12.2	7.8	+0.7	11	0	0	0	0	0	0	0	0	0	0
Cochin (Naval Air Station)*	29.9	..	30.5	27	24.3	..	23.2	5,19	9.2	110.9	..	59.2	19	9	..	9.8	5.9	..	11	0	0	3	0	0	0	0	0	0	0
Alleppey .	30.1	..	31.6	28	24.1	..	22.4	19	23.6	79.0	..	34.0	2	6	..	15.2	10.5	..	11	0	0	1	0	0	0	0	0	0	0
Punalur .	32.2	..	34.1	20,28	22.9	..	21.2	24	11.0	67.2	..	43.8	1	3	..	9.2	4.7	..	3	0	0	0	0	0	0	0	0	0	0
Trivandrum .	30.8	+1.1	31.9	23	23.7	+0.4	22.4	13	3.6	13.5	-101.0	5.4	13	1	-7.1	16.6	10.7	+1.4	6	0	0	2	0	0	0	0	0	0	0
Trivandrum (Aerodrome)	30.1	..	31.1	29	24.2	..	27.2	13	..	136.0	..	14.8	13	3	..	..	8.1	..	4	0	0	0	5	0	0	0	0	0	0
Arabian sea Islands Minicoy*																													
Amini Divi* Hill Stations excluding Kashmir																													
Walong (R)																													
Kohima .	26.0	..	27.3	10	18.5	..	17.7	30	58.2	160.8	..	25.0	2	14	..	..	..	..	20	0	0	2	0	0	0	0	0	0	0
Aijai .	25.3	..	28.3	10,13	19.9	..	18.8	17,20	84.1	353.0	..	69.9	20	21	..	7.4	7.8	..	24	0	0	0	0	0	0	0	0	0	0
Shillong .	24.4	+0.9	26.8	1	16.8	+0.4	13.9	26	94.8	304.6	+5.1	82.8	17	15	-2.3	2.2	1.2	-1.2	20	0	0	14	0	0	0	0	0	0	0
Cherrapunji .	23.9	+1.0	27.3	10	18.7	+0.6	17.1	16	341.0	1227.0	+125.9	485.0	17	12	-7.2	11.4	11.4	+5.1	13	0	0	0	9	0	0	0	0	0	0
Mawsynram .	..	..	..	..	..	..	..	..	..	1364.1	..	431.8	16	9	..	..	..	..	9	..	..	..	..	..	..	..	..	..	..
Darjiling (Raj Bhawan).	20.4	+1.2	24.4	23	15.1	+0.7	13.9	27,28, 30	83.1	448.6	-31.5	102.6	15	16	-1.0	1.7	1.9	-0.4	18	0	0	0	23	0	0	0	0	0	0
Kalimpong .	24.8	+1.1	26.3	29	18.3	-0.5	15.6	7,8	12.7	355.7	+68.2	81.3	16	14	+1.3	6.5	4.8	-4.2	14	0	0	0	0	0	0	0	0	0	0
Katmandu (Hydromet)	27.9	..	30.2	3	19.1	..	17.0	29	55.7	204.4	..	58.9	6	11	..	2.3	1.3	..	20	0	0	16	5	0	0	0	0	0	0
Mukteswar (Kumaon).	20.4	+0.6	22.8	19	13.7	+0.9	11.5	22	190.6	230.8	+29.4	84.4	29	11	+0.9	11.3	12.8	+4.8	14	0	0	10	21	0	0	0	0	0	0
Nainital .	21.1	..	23.3	18	15.7	..	12.2	19	273.1	379.8	..	107.5	29	12	..	11.3	8.3	..	18	0	0	0	0	0	0	0	0	0	0
Joshimath .	23.6	..	26.7	4	15.9	..	12.3	18	42.1	115.5	..	25.2	29	11	..	6.1	4.9	..	19	0	0	2	5	0	0	0	0	0	0
Badrinath .	15.1	..	18.3	8	8.9	..	6.1	17	..	136.3	..	22.7	28,30	12	..	..	..	..	16	..	..	..	..	..	..	..	..	..	..
Lokpal .	8.4	..	10.1	5,13	3.2	..	-0.4	30	..	178.4	..	20.6	30	19	..	..	..	..	26	..	..	..	..	..	..	..	..	..	..
Jamuna Chetty .	..	..	..	..	..	..	..	..	..	78.0	..	10.0	14	10	..	..	..	..	18	..	..	..	..	..	..	..	..	..	..
Mussooree .	20.4	+0.7	23.8	22	15.1	+1.0	11.8	29	122.6	343.2	+90.5	57.0	2	14	+1.2	7.0	6.4	+0.3	22	0	0	11	11	0	0	0	0	0	0
Kharsali .	..	..	..	..	..	..	..	..	..	73.0	..	13.2	23	10	..	..	..	..	21	..	..	..	..	..	..	..	..	..	..
Rana .	..	..	..	..	..	..	..	..	..	36.0	..	5.0	28	4	..	..	..	..	20	..	..	..	..	..	..	..	..	..	..
Simla .	19.8	-0.4	23.3	24	14.2	+0.7	11.6	1	188.3	331.1	+161.4	45.0	22	15	+5.7	3.5	3.1	+1.4	21	0	0	6	0	0	0	0	0	0	0
Dharampore .	..	..	..	..	..	..	..	..	..	291.2	+110.6	47.2	2	14	+6.5	..	..	..	16	..	..	..	..	..	..	..	..	..	..
Kyelang .	..	..	..	..	..	..	..	..	..	143.9	+103.0	24.1	27	12	+9.4	..	..	..	15	..	..	..	..	..	..	..	..	..	..
Gondla .	..	..	..	..	..	..	..	..	..	239.0	..	38.1	27	15	..	..	..	..	15	..	..	..	..	..	..	..	..	..	..
Kothi .	..	..	..	..	..	..	..	..	..	326.2	..	74.9	12	16	..	..	..	..	18	..	..	..	..	..	..	..	..	..	..
Koksar .	..	..	..	..	..	..	..	..	..	384.3	..	71.6	28	13	..	..	..	..	18	..	..	..	..	..	..	..	..	..	..
Dalhousie .	21.5	..	25.1	24	14.8	..	11.1	17,30	292.0	943.0	+769.0	156.0	11	17	+8.7	5.4	5.0	..	19	0	0	0	0	0	0	0	0	0	0
Dharamshala .	25.7	..	28.3	1	18.5	..	15.6	14	214.2	649.6	..	96.3	22	22	..	4.2	2.9	..	22	0	0	4	0	0	0	0	0	0	0
Abu .	21.5	-2.5	25.7	1	18.7	+0.5	16.6	19,20	321.7	734.3	+496.3	184.2	12	14	+6.4	12.9	11.5	+2.8	16	0	0	2	4	0	0	0	0	0	0
Pachmarhi .	24.5	-0.8	27.2	13	19.5	+0.6	17.6	27	167.4	553.4	+193.0	118.8	10	16	+2.9	8.7	9.1	+2.0	26	0	0	1	20	0	0	0	0	0	0
Mahabaleshwar .	19.7	-0.2	22.3	24	15.9	-0.1	14.6	26,28	380.0	899.4	+169.4	127.6	2	23	+0.4	15.7	16.2	+3.6	26	0	0	1	29	0	0	0	0	0	0
Nandi Hills .	22.7	..	23.0	4days	15.3	..	13.9	5days	..	264.0	..	108.0	21	9	..	..	8.0	..	9	0	0	0	30	0	0	0	0	0	0
Mercara .	22.3	+0.2	25.7	19	17.0	+0.4	15.7	26,27	100.4	268.9	-12.5	30.0	19	20	+1.8	13.0	12.0	+3.6											

TABLE II-SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER.—SEPTEMBER, 1958. (BHADRA, 10—ASVINA 8, 1880 SAKA) 459

(c) Mean of 28 days

Division and station	Air temperature in °C									Rainfall in millimetres						Wind speed, km. per hour		Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder head	Fog	Dus-storm	Ground frost	Gale	Squall	Line squall		
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
I																												
Hydrometeorological Observatories.—(contd.)																												
Gandak Catchment (Contd.)																												
Iomosom . .	(b) 23.7	..	25.1	9	11.9	..	5.6	25	0.3	9.3	..	3.6	6	1	..	..	..	..	6	..	..	..	..	..	..	..	..	..
Timure . .	26.1	..	28.3	22	16.9	..	15.1	27	3.8	106.5	..	12.9	7	15	..	..	..	..	19	..	..	..	..	..	..	..	..	..
Gogra Catchment (Trans Himalayan Region)																												
Dailekh . .	25.8	..	27.2	3	19.3	..	17.5	28	47.8	172.3	..	40.9	28	13	..	..	..	..	22	..	..	..	..	..	..	..	..	..
Gogra Catchment.																												
Dandeliura . .	23.5	..	25.1	15	16.4	..	13.8	30	55.5	146.8	..	28.2	22	14	..	..	..	..	17	..	..	..	..	..	..	..	..	..
Munayari . .	..	..	..	..	..	..	..	..	..	384.2	..	45.0	20	18	..	..	..	..	21	..	..	..	..	..	..	..	..	..
Sallyana + .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Butwal . .	(d) 32.8	..	35.5	5	24.7	..	22.3	29	188.6	421.6	..	130.0	13	15	..	..	..	..	16	..	..	..	..	..	..	..	..	..
Bagmati Catchment.																												
Katmandu* . .																												
Kosi Catchment.																												
Chautara . .	26.3	..	28.1	3	18.5	..	17.3	24	74.8	351.6	..	59.7	5	19	..	..	..	..	20	..	..	..	..	..	..	..	..	..
Okhaldunga (R) . .																												
Barahkshetra . .	31.4	..	34.4	9, 10	23.9	..	22.5	16	128.2	309.0	..	55.9	5	13	..	6.8	4.3	..	22	0	0	18	0	0	0	0	0	0
Angbung + .																												
Taplejung . .	24.8	..	28.5	10	..	..	..	..	68.7	230.5	..	64.2	5	13	..	..	..	..	20	0	0	6	6	0	0	0	0	0
Taplethok . .	28.7	..	31.1	26	17.9	..	16.7	2	..	167.5	..	24.4	1	15	..	..	..	..	23	..	..	..	..	..	..	..	..	..
Wallungchung Gola (b) . .	16.1	..	18.4	3	8.7	..	6.4	30	..	151.9	..	15.5	13	22	..	..	..	..	26	..	..	..	..	..	..	..	..	..
Bhojpur . .	24.7	..	26.9	23	17.8	..	16.4	16	9.7	54.9	..	13.2	4	8	..	..	..	..	10	..	..	..	..	..	..	..	..	..
Chainpur . .	27.5	..	30.4	12	19.6	..	18.6	27	31.0	137.9	..	23.4	13	14	..	..	..	..	17	..	..	..	..	..	..	..	..	..
Tista Catchment.																												
Gangtok . .	22.4	..	25.7	3	16.1	..	15.1	23, 26, 28	62.3	299.9	..	60.2	15	19	..	3.5	2.9	..	25	0	0	3	17	0	0	0	0	0
Geyzing . .	26.9	..	29.8	11	17.9	..	15.1	23	27.8	252.4	..	43.3	6	13	..	..	..	..	14	..	..	..	..	..	..	..	..	..

+ Data not available.

(b)—Mean of 29 days.

(d) Mean of 27 days.

*—Data included under "Hill Stations."

(R) Register not received.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS.—SEPTEMBER 1958. (BHADRA 10—ASVINA 8, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres.	Mean pressure in millibars		Mean temperature in °C			Dew point	Vapour pressure in mbs.	Relative humidity %	Cloud amount (Oktas)		Wind speed (Km. p.h.)	No. of observations														
			At station level		Departure from normal	Dry bulb	Wet bulb				Mean amount	Wind speed Km. per hour		Wind direction														
			4	5	6	7	8				13	14		16	17	18	19	20	21	22	23	24	25	26	27	28		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
Bay Islands																												
	Maya Bandar	0830	23	1009.1	1006.5	..	26.7	25.1	24.2	30.1	83	..	5.6	..	6.2	0	0	23	0	0	0	0	0	0	7	0		
Long Island	0830	"	1006.7	1004.0	..	27.0	25.1	25.0	30.2	87	..	6.1	..	4.0	0	0	23	0	1	0	0	0	0	20	0	0		
	1730	"	1009.4	1005.7	..	27.5	25.7	24.7	31.4	85	..	6.6	..	1.0	0	0	10	0	0	0	0	0	0	9	1	0		
Port Blair	0530	79	1008.1	999.1	..	24.8	24.0	23.6	29.2	93	..	6.7	..	0.5	0	0	5	0	0	0	0	0	0	5	0	0		
	0830	"	1009.8	1000.9	+0.3	27.2	25.2	24.3	30.6	85	+1	6.8	+0.6	..	0	3	24	0	0	0	0	0	1	15	10	1		
Car Nicobar	1130	"	1008.5	999.7	..	37.9	25.3	24.2	30.5	80	..	6.9	..	..	0	2	26	0	0	0	0	1	2	14	11	0	
	1730	"	1007.4	998.5	..	25.9	24.6	24.0	29.7	90	..	6.2	..	..	0	0	25	0	0	0	0	0	0	15	10	0	
Nancowry	2330	"	1008.9	1000.0	..	25.1	24.3	23.9	29.7	94	..	5.0	..	..	0	2	20	0	0	0	0	0	2	15	4	1	
	0830	10	1010.2	1009.0	..	28.2	25.5	24.4	30.3	80	..	6.2	..	4.7	0	0	26	0	0	0	0	0	0	13	10	0		
Kondul	1730	"	1007.8	1006.6	..	26.8	24.9	24.0	29.9	85	..	5.9	..	1.5	0	0	11	0	0	0	0	0	0	8	2	0		
	0830	26	1011.0	1008.1	..	27.5	25.2	24.2	30.4	82	..	6.7	..	14.2	0	3	27	0	0	0	0	0	0	26	4	0		
Assam (Including Manipur, Tripura)	1730	"	1008.5	1005.6	..	26.9	24.8	23.8	29.3	83	..	6.7	..	11.3	0	2	27	0	0	0	0	0	0	23	5	1		
	0830	8	1011.3	1010.3	..	27.5	25.3	24.3	30.4	83	..	5.5	..	8.2	0	2	25	0	0	0	12	15	0	0	0	3		
Pasighat	1730	"	1008.8	1007.9	..	26.9	25.1	24.3	30.5	86	..	4.9	..	6.0	0	0	16	0	0	7	9	0	0	0	0	14	0	
	0830	157	1007.0	989.4	..	26.9	24.3	23.1	29.3	81	..	5.1	..	6.9	0	3	19	5	2	2	3	2	0	0	8	8	0	
Digboi	0830	..	1002.6	985.5	..	28.0	25.8	24.8	31.3	84	..	3.9	..	0.8	0	0	8	0	1	0	0	3	0	0	4	22	0	
	1730	..	..	..	..	26.3	25.2	24.5	31.2	85	..	5.9	..	0	0	0	30	2	3	6	2	10	2	5	0	0	
Dibrugarh	0830	..	106	1006.6	994.9	-1.0	27.6	25.5	24.5	30.7	84	-2	4.8	-1.0	2.7	0	0	21	5	4	8	1	2	0	0	1	9	
	1730	"	1002.3	990.5	..	28.3	26.2	25.1	32.1	81	..	3.2	..	0.6	0	0	6	0	0	4	0	1	0	0	1	24	0	
Dibrugarh (Mohanbari Aerodrome)	0230	111	1004.8	992.2	..	25.3	24.6	24.4	30.4	95	..	5.0	..	1.4	0	0	7	1	2	1	0	1	0	1	1	23	0	
	0530	"	1005.8	993.3	..	24.7	24.0	23.7	29.4	94	..	6.3	..	3.0	0	1	11	0	6	4	1	0	1	0	0	18	0	
North Lakhimpur	0830	..	1007.1	994.6	..	29.5	25.2	24.1	30.1	82	..	5.6	..	4.3	0	0	18	1	7	5	4	1	0	0	12	0	0	
	1130	"	1005.1	992.7	..	30.0	25.9	24.3	30.2	73	..	4.9	..	3.1	0	0	16	0	8	2	1	3	1	1	0	14	0	
Sibsagar	1730	"	1002.5	990.1	..	29.0	26.1	24.9	31.1	79	..	4.9	..	1.6	0	0	7	1	4	1	0	0	1	0	0	23	0	
	0830	..	1005.4	992.8	..	25.7	24.9	24.5	30.8	93	..	4.0	..	1.1	0	0	5	0	2	1	1	0	0	1	0	0	25	0
Jorhat	0830	102	1006.7	995.2	..	27.7	25.5	24.5	31.8	84	..	4.9	..	5.2	0	1	29	4	6	11	4	1	3	1	0	0	0	0
	1130	"	1005.0	993.6	..	30.0	26.4	24.9	31.5	75	..	4.6	..	7.3	0	2	28	2	3	5	9	5	3	0	1	0	2	
Golaghat	1730	"	1001.9	990.6	..	29.4	27.1	26.1	34.0	83	..	3.4	..	3.7	0	0	19	2	3	3	2	3	4	2	0	11	0	
	0830	..	97	1007.2	996.3	-0.5	28.2	26.0	25.0	31.7	83	-4	6.0	-0.7	2.2	0	0	22	6	9	0	3	1	3	0	0	8	0
Gokpur	0830	..	1003.0	992.1	..	29.9	27.2	25.7	34.0	81	..	4.4	..	1.6	0	0	16	4	5	0	0	4	0	2	1	14	0	
	1730	..	90	1005.1	994.9	..	25.3	25.0	24.8	31.5	97	..	6.5	..	3.6	0	2	8	2	0	2	0	4	1	0	1	20	0
Tezpur	0830	..	1006.5	996.5	..	28.1	26.0	25.1	31.9	84	..	6.0	..	6.6	0	0	23	4	7	2	1	3	2	2	3	0	7	
	1730	..	1004.7	994.8	..	31.0	26.9	25.3	32.3	72	..	5.1	..	8.5	0	1	26	9	5	2	0	4	2	3	2	3	0	
Majbat	0830	..	1002.0	992.0	..	29.1	26.7	25.6	33.0	82	..	4.2	..	4.2	0	0	15	3	4	0	0	5	1	1	1	15	0	
	1730	28.3	25.9	24.9	31.6	83	..	7.0	..	0.2	0	0	2	0	0	0	0	0	0	0	0	0	26	0
Chaparmukh	0830	..	1001.6	997.4	..	27.7	25.9	25.2	32.4	78	..	6.3	..	0.3	0	0	2	11	3	7	0	2	1	4	0	0	28	0
	1730	..	66	1007.3	1000.0	..	29.9	26.7	25.4	32.1	77	..	4.6	..	4.4	0	0	22	0	1	1	19	0	1	0	0	0	8	0
Tangla	0830	..	1003.0	995.7	..	29.8	26.9	26.0	33.2	80	..	3.4	..	3.3	0	0	12	0	2	1	3	0	6	0	0	0	18	0
	1730	..	78	1006.1	997.4	..	28.8	26.2	25.2	32.3	82	..	3.3	..	2.0	0	0	14	1	0	7	1	0	2	3	0	0	16	0

*Observations for 28 days.

TABLE III.—SUMMARY OF OBSERVATIONS AT FIXED HOURS—SEPTEMBER, 1958. (BHADRA 10—ASVINA 8, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Cloud amount (Oktas)			Wind speed (Km.p.h.)			No. of observations													
			At station level.			Departure from normal.			Relative humidity %			Mean wind speed, km. per hour			Wind direction													
			At mean sea level or height in g.p.m. of nearest standard isobaric level.	Dry bulb.	Wet bulb.	At station level.	Departure from normal.	Dew point.	Vapour pressure in mb.	At station level.	Departure from normal.	Mean amount.	Departure from normal.	62 or more	62 to 61	20 to 61	1 to 19	N	NE	E	SE	S	SW	W	NW	Calm,	Variable,	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
Assam (Including Manipur, Tripura) —(Contd.)																												
Gauhati	0830	55	1006.4	1000.2	-0.8	28.6	26.1	24.9	31.8	81	-1	6.4	+1.0	3.1	0	0	30	1	8	3	0	0	12	0	6	0	0	
	1730	"	1002.7	996.5	..	29.1	26.0	24.7	30.7	78	..	6.2	..	3.1	0	0	30	2	1	3	1	2	11	5	5	0	0	
Gauhati (Bhujor Aerodrome)	0230	54	1004.4	998.2	..	25.6	24.9	24.7	31.1	95	..	5.1	..	1.9	0	0	12	1	1	2	0	5	3	0	0	18	0	
	0530	"	1004.9	998.7	..	25.4	24.9	24.6	31.1	95	..	6.0	..	2.1	0	0	14	0	1	2	2	4	4	1	0	16	0	
	0830	"	1006.4	1000.3	..	29.1	26.3	25.1	32.2	80	..	5.7	..	4.4	0	0	23	3	8	2	0	5	2	1	2	7	0	
	1130	"	1005.0	998.9	..	30.8	27.2	25.7	33.6	74	..	5.6	..	9.1	0	0	30	6	15	1	0	0	2	3	3	0	0	
	1730	"	1002.6	996.7	..	28.2	26.0	25.1	31.9	84	..	5.9	..	2.7	0	0	19	2	1	1	2	3	7	2	1	11	0	
Rangiya	0830	..	..	..	..	29.0	26.6	25.1	32.9	81	..	4.7	..	2.4 (d)	0	0	22	1	6	6	3	1	3	2	5	0	0
	1730	..	..	..	..	29.7	26.8	25.1	33.0	78	..	4.1	..	3.2	0	0	15	0	0	3	2	1	3	6	1	14	0
Gopalpara	0530	38	1005.9	1001.6	..	28.3	26.3	25.5	32.6	85	..	4.9	..	3.3	0	0	26	0	2	6	3	8	1	4	2	4	0	
	1730	"	1002.3	998.0	..	29.6	26.9	25.9	33.2	80	..	4.9	..	2.2	0	0	18	0	0	3	3	2	2	6	2	12	0	
Dhubri	0830	35	1007.0	1003.0	-0.3	28.4	26.6	25.8	33.2	86	+1	4.0	-1.2	2.3	0	0	16	1	3	2	2	4	3	1	0	14	0	
	1730	"	1003.2	999.1	..	28.4	26.4	25.4	32.4	83	..	4.2	..	2.0	0	0	14	1	4	4	0	1	3	1	0	16	0	
Thubri (Rupsi Aerodrome)	0530	..	..	..	..	25.8	25.3	25.1	31.8	96	..	3.9	..	3.6	0	0	14	1	4	4	0	1	3	1	0	16	0
	0830	..	..	..	..	28.5	26.5	25.7	31.8	85	..	6.0	..	6.8	0	0	28	4	3	5	7	5	3	1	0	2	0
	1130	..	..	..	..	30.5	26.9	25.5	32.5	75	..	6.2	..	7.3	0	0	29	2	2	7	5	2	7	3	1	1	0
	1730	..	..	..	..	28.4	26.3	25.5	31.4	85	..	6.1	..	2.6	0	0	16	0	0	3	1	5	7	0	0	14	0
Tura	0830	370	1008.2	967.0	..	25.9	24.3	23.5	29.1	86	..	5.6	..	2.9	0	0	19	0	1	4	2	3	5	2	2	11	0	
	1730	"	1004.1	963.2	..	26.7	25.0	24.2	30.3	87	..	7.0	..	3.0	0	0	23	0	4	4	4	3	6	2	0	7	0	
Agartala	0230	16	1004.1	1002.4	..	25.5	25.0	24.8	31.3	96	..	6.7	..	4.5	0	0	20	0	0	2	4	10	5	0	0	9	0	
	0530	"	1004.7	1002.9	..	25.1	24.7	24.4	30.8	96	..	6.9	..	5.7	0	0	21	0	2	4	10	5	0	0	0	9	0	
	0830	"	1006.2	1004.4	..	28.6	26.5	25.7	32.9	84	..	6.1	..	6.8	0	0	25	1	4	3	7	2	1	0	5	0		
	1130	"	1005.1	1003.3	..	30.8	26.9	25.3	32.3	74	..	6.4	..	8.9	0	0	29	3	0	4	6	3	7	2	4	1	0	
	1730	"	1002.7	1000.9	..	29.0	26.8	26.0	33.4	84	..	6.6	..	7.0	0	0	22	3	0	1	4	5	5	3	3	6	0	
	2330	"	1005.3	1003.6	..	26.2	25.5	25.3	32.5	95	..	6.0	..	4.0	0	0	19	1	1	1	9	4	3	0	0	11	0	
Kailashar(C.W.O.) (R)	0530	29																										
	0835	"																										
	1130	"																										
	1730	"																										
Silchar	0830	29	1007.2	1003.9	-0.8	28.3	25.9	25.0	31.4	82	-2	5.5	-0.3	0.2	0	0	2	0	0	0	1	0	0	1	0	28	0	
	1730	"	1002.7	999.5	..	29.7	27.0	25.9	33.4	81	..	5.1	..	0.2	0	0	2	0	0	0	0	1	1	0	28	0		
Silchar (Kumbhigram Aerodrome)	0530	97	1004.4	993.5	..	24.5	24.0	23.8	29.9	96	..	6.1	..	4.5	0	0	23	1	4	13	1	0	1	1	2	7	0	
	0830	"	1005.6	994.8	..	27.7	25.6	24.5	31.7	84	..	5.3	..	6.2	0	0	28	0	3	12	7	0	2	2	2	0	0	
	1130	"	1004.0	993.3	..	30.4	26.4	24.7	30.6	73	..	4.4	..	7.3	0	1	29	2	2	6	2	1	7	7	3	0	0	
	1730	"	1001.9	991.1	..	28.3	26.2	25.3	32.2	85	..	3.8	..	4.2	0	0	24	1	6	4	1	1	5	5	6	0	0	
Imphal	0530	801	1007.7	919.8	..	21.4	20.9	20.6	24.5	95	..	5.4	..	1.1	0	0	11	0	0	0	0	4	0	5	2	0	19	0
	0830	"	1007.9	921.0	..	24.9	22.3	21.0	25.1	79	..	5.6	..	3.4	0	0	23	1	2	1	9	6	0	3	1	7	0	
	1130	"	1005.4	919.5	..	27.7	23.2	21.1	25.4	68	..	5.5	..	7.9	0	1	27	0	1	3	5	7	8	3	1	2	0	
	1730	"	1004.1	917.5	..	24.9	22.6	21.5	25.9	82	..	5.9	..	2.7	0	0	20	1	0	0	2	1	6	6	4	10	0	
	2330	"	1007.6	919.9	..	22.2	21.4	21.0	24.9	93	..	5.2	..	1.5	0	0	8	0	0	0	2	0	3	1	2	2	0	
Haflong	0830	682	1006.5	932.0	..	24.7	22.8	22.0	26.5	85	..	4.9	..	7.5	0	2	28	3	12	0	0	0	15	0	0	0	0	
	1730	"	1002.2	928.3	..	25.9	23.4	22.4	27.1	82	..	5.2	..	8.4	0	1	29	4	4	0	1	3	14	0	4	0	0	
Lumding	0830	149	1006.7	990.1	..	28.3	25.8	25.0	31.1	81	-4	6.2	..	0.8	0	0	7	1	2	0	0	1	2	1	0	23	0	
	1730	"	1																									

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS.—SEPTEMBER, 1958. (BHADRA 10—ASVINE 8, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres.	Mean pressure in millibars	Mean temperature in °C					Vapour pressure in mbs.	Relative humidity %	Departure from normal.	(Cloud amount (Oktas)	Wind speed (Km. p.h.)	No. of observations															
														Wind direction															
				At mean sea level or height in g.p.m. of nearest standard isobaric level.	At station level.	Dry bulb.	Wet bulb.	Dew point.						N	NE	E	SE	S	SW	W	NW	Calm.	Variable.						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28		
Gangetic West Bengal	Dum Dum	0230	6	1003.2	1002.5	..	26.5	25.9	25.7	33.1	95	..	3.4	..	5.6	0	1	17	2	7	3	0	4	1	1	0	12	0	
		0530	"	1003.5	1002.8	..	26.3	25.8	25.6	32.7	96	..	6.4	..	5.8	0	1	21	1	5	5	4	4	2	1	0	8	0	
		0830	"	1006.5	1005.8	..	29.1	26.7	25.7	32.7	83	..	5.5	..	5.1	0	0	26	5	2	4	3	3	6	3	0	4	0	
		1130	"	1004.5	1003.8	..	30.8	27.3	25.9	33.2	76	..	6.4	..	11.7	0	3	27	0	3	8	9	5	3	1	1	0	0	0
		1730	"	1003.5	1002.8	..	29.4	26.6	25.5	32.6	79	..	6.3	..	4.8	0	0	27	2	5	2	6	6	3	3	0	3	0	
		2330	"	1004.3	1003.6	..	27.0	26.3	25.9	33.6	94	..	4.4	..	5.6	0	0	24	1	3	4	5	8	3	0	0	6	0	
Calcutta	Calcutta	0830	6	1004.9	1004.2	-1.1	29.3	26.5	25.3	33.7	79	-4	5.8	+0.1	8.7	0	4	21	0	3	7	8	2	2	2	1	5	0	
		1130	"	1004.2	1003.5	..	31.3	27.1	25.4	28.2	71	..	6.1	..	10.9	0	3	27	1	2	5	13	4	3	0	2	0	0	
		1730	"	1001.9	1001.2	..	28.6	26.3	25.3	32.6	83	..	6.5	..	6.3	0	1	23	0	3	5	8	6	2	0	0	6	0	
		0530	7	1003.6	1002.8	..	26.1	25.9	25.7	32.4	98	..	5.3	..	4.8	0	1	16	1	1	8	2	1	4	0	0	13	0	
		0830	"	1005.2	1004.4	..	29.1	27.1	26.2	34.4	85	..	6.1	..	10.7	0	1	27	0	4	8	8	0	5	2	1	2	0	
		1130	"	1004.4	1003.7	..	30.8	27.6	26.3	34.0	78	..	6.5	..	11.6	0	2	27	0	2	8	11	1	4	1	2	1	0	
Barrackpore	Barrackpore	1730	"	1002.0	1001.3	..	28.2	26.8	26.2	34.2	89	..	6.5	..	5.1	0	1	20	0	0	3	6	6	3	2	1	9	0	
		2330	"	1004.5	1003.8	..	26.7	26.2	26.0	33.5	96	..	3.8	..	3.6	0	1	14	1	1	4	1	5	3	0	0	15	0	
		0830	3	1004.3	1004.0	-1.3	28.5	26.4	25.7	33.2	84	+3	6.0	-0.1	21.1	1	10	19	3	3	2	7	7	7	1	0	0	0	
		1730	"	1001.5	1001.2	..	28.7	26.5	25.6	32.8	83	..	6.3	..	23.0	1	13	14	1	0	0	8	10	7	1	1	2	0	
		0530	10	1002.9	1001.8	..	28.4	26.4	25.6	33.0	85	..	5.6	..	..	0	12	17	3	1	2	4	5	8	2	4	1	0
		0830	"	1004.7	1003.6	-1.2	28.7	26.4	25.5	32.8	82	+3	6.3	+1.3	..	0	9	21	2	1	2	6	5	9	3	2	0		
Sandheads	Sandheads	1130	"	1004.2	1003.1	..	28.9	26.7	25.5	33.3	81	..	6.2	..	..	0	6	22	2	4	2	6	4	7	2	1	2	0
		1730	"	1001.7	1000.6	..	29.2	26.7	25.5	33.1	81	..	5.9	..	..	0	10	19	2	1	4	4	8	7	1	2	1	0
		2330	"	1003.9	1002.8	..	28.7	26.7	25.7	33.6	84	..	4.0	..	..	0	9	19	0	0	1	6	8	9	1	3	2	0
		0830	11	1004.8	1003.6	..	28.7	26.4	25.3	32.8	82	..	4.4	..	6.2	0	2	23	2	2	4	4	6	6	0	1	5	0	
		1730	"	1002.1	1000.9	..	28.5	26.4	25.5	33.2	83	..	4.5	..	6.5	0	1	25	2	1	4	9	3	6	1	0	4	0	
		0830	45	1005.1	1000.0	-0.7	28.7	26.4	25.4	32.8	83	+1	4.8	+0.3	4.3	0	0	27	1	6	5	2	8	4	1	0	3	0	
Midnapore	Midnapore	1730	"	1001.8	996.7	..	28.6	26.2	25.6	31.8	83	..	3.3	..	3.6	0	0	22	0	2	1	6	7	6	0	0	8	0	
		0830	255	1005.6	977.5	..	27.2	25.2	24.2	30.6	85	..	6.4	..	5.5	0	0	27	6	1	5	7	1	4	1	2	3	0	
		1730	"	1001.7	973.7	..	28.3	25.6	24.5	30.5	80	..	6.2	..	4.0	0	0	27	2	5	1	12	3	3	0	1	3	0	
		0830	32	1005.2	1001.6	-0.7	29.0	26.8	25.4	33.4	82	-1	5.5	+0.1	2.9	0	0	16	0	0	4	0	8	4	0	0	14	0	
		1730	"	1002.1	998.5	..	28.7	26.1	25.1	32.1	82	..	6.7	..	3.3	0	0	15	2	0	5	0	8	0	0	0	15	c	
		0830	15	1005.6	1003.9	-0.3	29.4	27.0	26.2	33.5	83	+2	4.5	-0.9	3.0	0	0	22	0	0	8	3	9	1	1	0	8	0	
Asansol	Asansol	1730	"	1002.2	1000.6	..	29.0	26.6	25.8	32.6	82	..	4.5	..	2.1	0	0	20	0	0	2	0	18	0	0	0	10	0	
		0230	126	1003.0	988.8	..	26.1	25.8	25.7	33.1	98	..	5.1	..	4.8	0	0	21	2	4	2	8	2	1	2	0	9	0	
		0530	"	1003.5	989.3	..	25.7	25.5	25.5	32.3	99	..	6.0	..	4.1	0	0	19	2	2	3	6	2	1	2	1	11	0	
		0830	"	1004.9	990.8	-0.6	28.5	26.6	25.8	33.2	85	+2	6.2	+1.0	7.3	0	0	27	0	4	4	11	1	3	2	2	3	0	
		1130	"	1004.0	990.0	..	30.3	27.5	26.4	34.6	80	..	6.3	..	8.9	0	0	27	2	1	11	7	0	2	2	2	3	6	
		1730	"	1001.4	987.3	..	28.4	27.0	26.5	34.6	90	..	6.6	..	6.3	0	1	22	0	2	5	10	0	0	2	2	2	7	0
Suri	Suri	2330	"	1004.2	990.0	..	26.4	26.0	25.8	33.0	97	..	4.7	..	5.5	0	1	19	1	1	6	4	3	2	3	0	10	0	
		0830	77	1005.4	996.7	..	28.3	26.2	25.2	32.0	82	..	5.2	..	8.6	0	1	25	0	3	8	6	3	2	2	2	4	0	
		1730	"	1002.4	993.8	..	29.1	26.3	25.1	32.0	80	..	6.1	..	6.9	0	0	28	2	2	6	9	4	3	1	1	2	0	
		0830	19	1005.1	1003.0	-1.1	28.5	26.6	25.8	33.2	86	+4	5.8	+0.4	3.8	0	0	21	0	1	11	0	0	9	0	0	9	0	
		1730	"	1001.7	999.5	..	29.6	26.7	25.7	32.6	80	..	5.9	..	1.9	0	0	11	0	0	4	0	5	2	0	0	19	0	
		0830	54	1005.4	999.3	..	27.6	25.8	24.9	32.2	86	..	6.7	..	1.6	0	0	16	2	2</									

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—SEPTEMBER, 1958. (BHADRA 10—ASVINA 8, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres.	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs.	Relative humidity %.	Departure from normal.	Cloud amount (Oktas)	Wind speed (Km. p.h.)	No. of observations													
			At mean sea level or height in Km.m. of nearest standard isobaric level.			At station level.								Wind direction													
	2	3	4	5	6	7	8	9						N	NE	E	SE	S	SW	W	NW	Calm.	Variable.				
i	2	3	-4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Orissa—Contd.																											
Bhubaneswar (Contd.)	2330	46	1004.3	999.1	..	26.4	25.7	25.4	32.3	94	..	6.3	..	7.1	0	0	26	1	3	2	2	1	10	4	3	4	0
Puri . . .	0830	6	1005.1	1004.4	-0.6	28.8	26.5	25.7	33.1	83	+3	6.5	+1.8	12.5	0	7	23	6	2	2	2	1	7	2	8	0	0
Gopalpur . . .	1730	"	1002.4	1001.7	..	28.6	26.4	25.3	32.6	84	..	7.4	..	18.5	0	10	20	3	2	2	3	4	14	1	1	0	0
	0530	17	1003.6	1001.7	..	26.2	25.5	25.0	31.7	93	..	6.3	..	2.1	0	1	9	3	0	0	0	0	2	0	5	20	0
	0830	"	1005.3	1003.4	-0.5	28.8	26.3	25.2	33.4	81	0	6.2	+2.0	2.7	0	1	18	4	0	1	0	2	6	2	4	11	0
	1130	"	1004.7	1002.8	..	30.4	26.6	25.0	31.6	74	..	6.0	..	7.3	0	3	24	4	0	1	4	8	5	0	5	3	0
	1730	"	1002.5	1000.6	..	28.1	26.2	25.4	32.4	85	..	6.8	..	7.3	0	2	23	3	0	1	3	8	8	1	1	5	0
	2330	"	1004.6	1002.7	..	26.9	25.8	25.4	32.4	91	..	6.1	..	4.4	0	2	12	3	0	0	0	4	4	0	3	16	0
Koraput . . .	0830	913	1482.6	907.7	..	22.1	20.7	20.1	23.3	88	..	5.9	..	..	0	0	30	1	0	0	1	0	14	6	8	0	0
	1730	"	1455.1	904.9	..	22.6	20.9	20.1	23.4	86	..	6.0	..	2.6	0	0	24	0	1	0	3	10	8	2	0	6	0
Titilagarh . . .	0830	211	1005.4	981.9	..	26.3	24.5	23.7	29.3	86	..	6.0	..	..	0	0	30	1	0	0	1	0	14	6	8	0	0
	1730	"	1001.9	978.3	..	27.8	25.2	24.1	29.9	81	..	5.1	..	2.2	0	0	21	2	2	0	1	7	7	1	1	9	0
Bolangir . . .	0830	190	1005.0	983.4	..	26.7	25.0	24.3	30.6	86	..	6.6	..	7.1	0	0	30	3	3	3	3	5	10	0	2	0	1
	1730	"	1002.1	981.0	..	27.4	25.0	24.0	29.5	82	..	7.0	..	7.3	0	0	30	5	2	2	2	7	9	0	3	0	0
Angul . . .	0830	139	1005.1	989.4	-0.7	26.8	25.0	24.1	29.9	86	+4	7.2	+1.8	4.1	0	0	27	1	4	3	0	1	6	10	2	3	0
	1730	"	1001.7	986.3	..	28.4	25.5	24.2	30.1	79	..	7.6	..	4.8	0	0	36	3	7	1	7	1	8	0	3	0	0
Keonjhar . . .	0830	463	1002.1	951.2	..	25.5	23.7	22.9	28.3	85	..	5.9	..	6.4	0	1	27	2	5	3	6	0	2	5	5	2	0
	1730	"	999.2	948.4	..	26.1	24.0	23.2	28.0	84	..	7.5	..	5.1	0	0	29	1	2	4	11	3	3	5	0	1	0
Sambalpur . . .	0830	148	1005.3	998.4	-0.9	27.2	25.4	24.5	31.4	85	+3	6.2	+1.2	3.4	0	0	27	2	1	3	3	4	10	2	2	3	0
	1730	"	1001.7	985.3	..	28.0	25.6	24.5	30.6	82	..	6.8	..	4.5	0	0	28	1	0	2	6	4	8	5	2	2	0
Jharsuguda . . .	0230	230	1003.0	977.1	..	25.0	24.6	24.4	30.5	96	..	6.4	..	3.4	0	0	15	0	5	2	1	3	1	1	2	15	0
	0530	"	1003.3	977.5	..	24.7	24.4	24.2	30.5	97	..	6.6	..	5.0	0	0	21	0	7	3	1	5	2	2	1	9	0
	0830	"	1004.8	979.1	..	27.0	25.2	24.5	30.5	86	..	6.5	..	5.3	0	0	24	0	8	2	1	4	2	4	3	6	0
	1130	"	1003.8	978.4	..	29.1	26.0	24.7	31.1	78	..	6.4	..	7.4	0	1	28	0	6	4	2	3	6	3	5	1	0
	1730	"	1001.6	976.0	..	27.2	25.2	24.3	30.3	85	..	7.3	..	4.2	0	0	18	0	2	3	1	4	3	2	12	0	
	2330	"	1004.3	978.5	..	25.5	24.8	24.5	30.7	95	..	6.4	..	3.8	0	0	18	0	7	2	1	4	3	1	0	12	0
Chota Nagpur																											
Jamshedpur . . .	0830	129	1004.4	990.0	-0.9	27.6	25.7	24.9	31.4	85	+4	5.9	+0.2	7.0	0	0	29	0	2	12	1	0	4	8	2	1	0
	1730	"	1001.5	987.1	..	27.9	25.9	24.9	32.0	83	..	6.6	..	4.1	0	0	26	0	3	14	3	1	1	2	4	0	
Jamshedpur (P.B.O.)	0530	145	1003.3	986.9	..	25.6	24.9	24.6	31.4	94	..	7.0	..	4.7	0	0	18	1	4	7	0	0	3	2	1	12	0
	0830	"	1004.8	988.6	..	27.7	25.5	24.5	30.8	83	..	6.8	..	6.7	0	0	29	0	3	8	1	0	8	5	4	1	0
	1130	"	1003.8	987.7	..	29.7	26.1	24.5	30.9	74	..	6.7	..	8.2	0	1	29	4	4	6	3	0	6	5	2	0	0
	1730	"	1001.6	985.4	..	28.3	25.6	24.4	30.5	80	..	6.9	..	5.3	0	0	25	0	4	10	6	0	1	2	2	5	0
	2330	"	1004.3	988.0	..	26.3	25.3	24.4	31.2	91	..	5.7	..	4.5	0	0	22	0	7	6	2	0	3	2	2	8	0
Chaibasa . . .	0830	226	1005.0	979.5	-0.6	27.4	25.3	24.4	30.3	84	+3	5.7	+0.6	1.2	0	0	11	0	5	0	0	0	4	0	2	19	0
	1730	"	1001.4	976.3	..	28.1	25.6	24.5	30.9	81	..	6.2	..	1.1	0	0	11	0	6	0	3	0	2	0	0	19	0
Ranchi . . .	0830	655	1003.8	931.8	-1.8	24.9	23.4	22.6	28.0	89	+8	6.6	+1.5	0.4	0	0	4	0	0	3	0	1	0	0	26	0	
	1730	"	1002.2	930.7	..	24.9	23.3	23.0	27.4	85	..	6.8	..	0.4	0	0	2	0	0	0	0	0	0	0	0	28	0
Ranchi (C.W.O.)	0530	652	1003.3	931.7	..	22.8	22.2	21.9	26.4	96	..	6.7	..	6.8	0	0	22	2	3	7	1	1	4	2	3	7	0
	0830	"	1004.6	933.2	..	24.5	23.1	22.4	27.1	89	..	6.7	..	8.7	0	0	26	4	2	10	1	1	4	2	3	3	0
	1130	"	1003.8	932.9	..	26.6	23.9	22.7	27.5	80	..	7.0	..	9.7	0	0	27	4	3	9	4	1	2	3	2	2	0
	1730	"	1000.8	929.9	..	25.7	23.9	22.8	28.2	85	..	6.7	..	7.7	0	1	20	1	1	9	0	0	1	4	2	3	3
Daltonganj . . .	0830	221	1004.6	980.1	-0.8	28.5	25.5	24.2	30.0	74	-5	5.3	+1.8	3.2	0	0											

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—SEPTEMBER, 1958. (BHADRA 10—ASVINA 8, 1880 SAKA)

Division and station	Hour of observation I.S.T.		Mean pressure in millibars.		Mean temperature in °C				Cloud amount (Oktas)		Wind speed (Km.p.h.)		No. of observations																					
			At mean sea level or height in g.p.m. of nearest standard isobaric level.		At station level.				Departure from normal.		Departure from normal.		Mean amount.		Departure from normal.		Mean wind Km. per hour.		62 or more.		20 to 61.		1 to 19.		N	NE	E	SE	S	SW	W	NW	Calm.	Variable.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28						
Bihar—(Contd.)																																		
Patna	0830	53	1004.9	999.0	-0.7	29.5	26.5	25.3	32.0	79	0	4.7	-0.2	12.3	0	1	29	0	B	7	8	0	1	4	2	0	0	0						
	1730	"	1001.6	995.6	..	29.6	26.6	25.2	32.3	76	..	4.6	..	6.7	0	0	26	0	5	10	7	0	3	1	0	4	0	0						
Patna (Aerodrome)	0530	60	1002.8	996.1	..	(d)	(d)	(d)	(d)	93	..	5.0	..	6.9	0	2	19	1	1	9	4	1	0	4	1	9	0	0	0					
	0830	"	1004.3	997.6	..	29.2	26.7	25.7	32.9	82	..	5.1	..	12.5	0	0	29	1	2	10	8	1	0	4	3	1	0	0	0					
	1130	"	1003.6	997.2	..	30.9	27.1	25.2	32.7	69	..	5.8	..	13.4	0	2	28	1	3	4	12	2	2	3	3	0	0	0	0					
	1730	"	1000.8	994.1	..	30.2	26.8	25.4	32.4	76	..	5.2	..	8.8	0	0	23	1	1	9	5	2	2	2	1	7	0	0	0					
	2330	52	1003.6	997.8	..	29.5	27.5	26.8	35.0	85	..	3.8	..	2.3	0	0	16	0	0	5	5	4	0	2	0	14	0	0	0					
Dehri	0830	107	1004.4	992.4	..	28.3	26.2	25.3	32.2	84	..	5.1	..	3.3	0	0	30	0	0	7	10	1	3	3	6	0	0	0	0					
	1730	"	999.9	988.3	..	29.3	26.6	25.3	32.6	80	..	5.0	..	3.1	0	0	30	3	2	12	2	2	1	5	3	2	0	0	0					
Gaya	0230	116	1003.2	990.1	..	26.6	26.0	25.9	33.2	95	..	4.4	..	4.5	0	0	15	1	0	5	5	0	2	1	1	15	0	0	0					
	0530	"	1003.3	989.8	..	26.2	25.8	25.6	32.9	97	..	4.7	..	4.9	0	0	14	0	1	6	4	0	2	2	1	14	0	0	0					
	0830	"	1005.0	991.9	-0.3	28.2	26.6	26.0	33.5	89	+13	5.2	+1.5	7.9	0	0	22	1	0	5	6	2	1	4	3	8	0	0	0					
	1130	"	1004.4	991.4	..	30.3	27.6	26.6	34.7	81	..	5.2	..	11.6	0	6	18	4	1	5	6	0	1	2	5	6	0	0	0					
	1730	"	1001.5	988.5	..	29.1	27.3	26.6	34.9	87	..	5.7	..	7.6	0	0	23	1	0	5	9	2	2	1	3	7	0	0	0					
	2330	"	1004.4	991.3	..	27.3	26.6	26.3	34.1	94	..	4.6	..	4.6	0	1	15	0	1	3	8	1	1	1	14	0	0	0						
Jamui	0830	82	1004.7	995.3	..	28.8	26.6	25.6	33.0	84	..	4.7	..	6.1	0	0	28	0	1	11	8	0	0	0	8	2	0	0						
	1730	"	1001.1	992.1	..	29.4	26.7	25.4	32.7	80	..	4.2	..	3.8	0	0	25	0	1	10	7	0	0	0	1	6	5	0	0					
Dumka (R)	0830	149																																
	1730	"																																
Bhagalpur	0530	49	1003.6	998.1	..	26.9	26.1	25.7	33.1	94	..	5.5	..	4.9	0	2	21	0	1	8	8	1	3	2	0	7	0	0	0					
	0830	"	1005.4	999.9	..	29.2	26.9	25.9	33.9	83	..	5.4	..	6.6	0	1	24	0	1	7	12	2	0	3	0	5	0	0	0					
	1130	"	1004.7	999.2	..	31.3	27.4	25.7	33.4	67	..	5.4	..	7.2	0	0	28	0	3	5	13	1	1	3	2	2	0	0	0	0				
	1730	"	1001.9	996.4	..	29.7	26.8	25.6	33.3	79	..	5.2	..	7.9	0	3	20	0	0	8	10	0	1	2	2	7	0	0	0	0				
	2330	"	1004.7	999.2	..	27.8	26.5	25.9	33.4	90	..	4.1	..	4.4	0	2	18	0	1	3	12	2	0	2	0	10	0	0	0	0				
Tabour	0830	37	1005.2	1001.0	0	29.1	26.9	25.8	33.6	84	+1	6.0	+0.3	8.8	0	1	29	1	1	5	15	2	2	3	1	0	0	0	0	0				
	1730	"	1001.7	997.5	..	29.5	27.1	25.9	33.6	83	..	5.6	..	7.1	0	1	24	1	0	7	11	0	2	2	2	5	0	0	0	0				
Uttar Pradesh (East)																																		
Gonda	0830	110	1004.8	992.3	..	28.4	26.3	25.6	32.0	84	+3	4.7	+0.5	3.0	0	0	24	0	0	18	0	0	0	5	1	6	0	0	0					
	1730	"	1001.4	989.2	..	29.1	26.7	25.4	33.2	80	..	4.3	..	3.3	0	0	12	0	0	8	0	0	0	4	0	18	0	0	0					
Nautanwa	0830	99	1005.1	994.0	..	29.0	26.4	24.8	32.4	80	..	4.6	..	5.5	0	0	30	1	2	12	11	1	1	2	0	0	0	0	0	0				
	1730	"	1001.7	990.7	..	30.5	27.1	25.9	33.4	75	..	3.8	..	4.2	0	0	26	2	1	6	9	3	1	4	0	4	0	0	0	0				
Gorakhpur	0830	77	1004.4	995.8	-1.0	28.8	26.1	25.2	31.6	81	0	5.0	+1.6	2.9	0	0	28	0	0	18	0	2	0	8	0	2	0	0	0	0				
	1730	"	1001.0	992.3	..	29.8	26.7	25.2	32.7	77	..	5.4	..	1.4	0	0	14	0	0	5	1	1	0	7	0	16	0	0	0					
Gorakhpur (P.B.O.)	0230	78	1002.9	994.1	..	26.9	26.0	25.6	32.6	92	..	4.1	..	5.5	0	1	20	2	9	3	1	4	2	0	7	0	9	0	0	0				
	0530	"	1003.0	994.1	..	26.4	25.6	25.2	32.6	93	..	4.9	..	3.8	0	0	23	1	10	2	3	1	4	2	0	7	0	0	0	0				
	1130	"	1004.4	995.8	..	31.2	27.3	25.6	32.9	73	..	6.0	..	8.4	0	1	28	1	3	5	11	1	1	5	1	2	1	0	0	0				
	2330	"	1004.1	995.3	..	27.4	26.2	25.6	32.9	90	..	4.2	..	3.6	0	0	17	1	7	2	2	0	4	1	0	13	0	0	0					
Azamgarh	0830	78	1003.9	995.3	..	28.4	26.8	26.2	33.6	88	..	5.1	..	0	0	0	22	0	0	13	0	0	0	0	0	0	0	0	0	0				
	1730	"	1000.8	992.5	..	29.8	27.6	26.8	34.9	84	..	4.1	..	0	0	0	5	0	0	4	0	0	0	0	0	0	0	0	0	0	0			
Ballia	0830	64	1004.9	997.7	..	28.5	26.4	25.6	32.8	84	..	4.9	..	4.7	0	0	25	0	0	4	10	4	0	5	2	0	5	0	0	0	0	0		
	1730	"	1001.1	994.1	..	30.8	27.0	24.8	31.8	72	..	4.8	..	4.2	0	0	22	1	4	9	3	0	4	1	0	0	25	0	0	0	0	0		
Varanasi (Banaras).	0830	76	1004.4	995.9	-0.8	28.6	26.3	25.3	33.2	83	+3	4.6	+0.4	7.4	0	0	25	0	4	8	2	2	3	4	2	5	0	0	0	0	0	0		
	1730	"	1000.7	992.1	..	29.9	26.7	25.4	32.3	77	..	5.0	..	6.7	0	0	25	2	7	5	0	1	6	4	0	5	0	0	0	0	0	0		
Varanasi (Banaras) (Babatpur Aerodrome).	0530	85	1003.9	994.2	..	26.0	25.5	25.3	32.3	96	..	5.1	..	6.7	0	1	26	0	4	9	2	0	8	3	1	3	0	0	0	0	0	0		
	0830	"	1005.4	995.9	..	28.5	26.4	25.7	32.0	84	..	5.5	..	12.7	0	2	27	0	3	11	1	1	3	7	3	1	0	0	0	0	0	0		
	1130	"	1005.1	995.6																														

(d) Mean of 27 days.

(R) Register not received.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—SEPTEMBER, 1958. (BHADRA 10—ASVINA 8, 1880 SAKA)

Division and station	Hour of observation I.S.T. (Contd.)	Height of barometer cistern above mean sea level in metres.	Mean pressure in millibar			Mean temperature in °C			At station level.	Departure from normal.	Dew point.	Vapour pressure in mbs.	Relative humidity %.	Cloud amount ^a (Octas).	Wind speed (Km. p.h.)	No. of observations												
			At mean sea level or height in gpm. of nearest standard isobaric level.	At station level.	Departure from normal.	Dry bulb.	Wet bulb.	At station level.								N	NE	E	SE	S	SW	W	NW	Calm.	Variable.			
			1	2	3	4	5	6								19	20	21	22	23	24	25	26	27	28			
Uttar Pradesh (East)																												
Fatehpur	0830	114	1004.3	991.4	..	27.6	26.2	25.5	33.3	88	+7	4.9	+1.2	7.6	0	0	26	1	1	6	5	1	5	6	1	4	0	
	1730	"	1000.9	988.2	..	29.3	26.3	25.4	33.1	80	..	5.3	..	4.7	0	0	22	0	2	9	1	0	4	6	0	8	0	
Kanpur	0830	126	1004.9	990.6	-0.2	28.0	25.8	24.9	31.7	83	+1	5.6	+3.0	12.1	0	1	28	1	3	8	3	3	5	3	3	1	0	
	1730	"	1001.5	987.5	..	29.8	26.2	24.7	31.5	75	..	6.1	..	9.0	0	2	26	2	4	8	1	2	5	5	1	2	0	
Lucknow	0830	111	1004.9	992.5	-0.1	28.4	26.1	25.1	31.3	82	+3	3.7	+0.1	6.5	0	0	26	2	1	15	0	2	0	6	0	4	0	
	1730	"	1001.4	989.0	..	30.0	26.4	24.9	31.5	75	..	3.6	..	5.1	0	0	26	1	0	13	0	2	0	10	0	4	0	
Lucknow (Amausi Aerodrome)	0230	128	1002.5	988.1	..	26.2	25.4	25.0	31.5	93	..	4.1	..	7.6	0	0	27	0	2	8	7	0	5	4	1	3	0	
	0530	"	1002.6	988.2	..	25.9	25.3	25.1	31.3	95	..	5.0	..	9.0	0	0	27	1	1	11	3	2	1	7	1	3	0	
	0830	"	1004.1	989.9	-0.9	28.2	25.9	25.0	32.0	82	+7	4.3	+0.7	13.0	0	2	27	0	1	6	8	3	3	4	4	1	0	
	1130	"	1004.0	989.9	..	30.3	26.6	25.0	31.5	74	..	5.7	..	13.6	0	4	25	1	0	8	9	0	4	5	2	1	0	
	1730	"	1000.9	986.7	..	29.3	26.3	25.0	32.7	77	..	4.5	..	9.7	0	2	28	1	2	9	5	1	2	7	3	0	0	
	2330	"	1003.7	989.4	..	26.8	25.6	25.0	31.9	91	..	3.5	..	7.0	0	1	21	0	3	7	4	2	2	4	0	8	0	
Hardoi	0830	142	1004.0	988.0	..	28.1	26.2	25.5	32.5	86	..	3.9	..	5.7	0	0	28	4	0	10	6	1	1	5	1	2	0	
	1730	"	1000.7	984.9	..	30.0	26.6	25.3	32.3	76	..	3.9	..	5.1	0	0	28	1	1	10	4	1	2	8	1	2	0	
Lakhimpur Kheri	0830	147	1004.2	987.5	..	26.7	25.8	25.4	32.6	92	..	3.6	..	2.5	0	0	18	0	0	11	0	0	0	6	0	13	0	
	1730	"	1000.9	984.6	..	29.9	26.7	25.4	32.3	78	..	3.1	..	2.3	0	0	22	1	0	11	1	0	0	8	0	9	0	
Bahraich	0830	124	1004.0	990.1	-1.1	28.9	26.3	25.4	32.4	81	+3	5.9	+3.1	8.5	0	1	28	3	0	17	1	0	2	6	0	1	0	
	1730	"	1001.0	987.7	..	29.3	26.4	25.2	32.7	79	..	5.9	..	4.8	0	0	24	1	0	13	2	1	0	7	0	6	0	
Uttar Pradesh (West).																												
Orai	0830	141	1005.1	989.6	..	28.2	26.1	25.1	32.0	84	..	5.8	..	5.0	0	0	30	0	2	1	1	2	15	1	8	0	0	
	1730	"	1000.9	985.2	..	29.6	27.0	26.2	33.5	82	..	4.8	..	4.3	0	0	30	2	3	3	2	2	9	4	4	0	0	
Jhansi	0830	251	1004.3	976.2	-1.5	26.4	24.4	23.3	28.6	84	+10	5.0	+2.1	2.9	0	0	23	0	3	2	4	3	5	3	3	7	0	
	1730	"	1000.9	973.3	..	28.9	25.8	23.4	30.8	73	..	5.5	..	2.3	0	0	20	3	1	2	2	2	1	4	5	10	0	
Agra	0830	169	1004.0	985.2	-1.1	27.5	25.5	24.5	31.7	85	+10	4.9	+1.8	2.8	0	0	16	0	0	1	7	2	4	2	0	14	0	
	1730	"	1001.0	982.3	..	29.6	26.1	24.8	30.3	76	..	4.7	..	2.1	0	0	19	2	1	5	2	3	1	2	3	11	0	
Agra (Aerodrome)	0530	163	1002.5	983.5	..	25.7	25.4	25.3	32.0	98	..	5.1	..	0	4	14	0	4	6	1	5	2	0	12	0			
	0830	"	1003.7	984.9	..	27.6	26.1	25.6	33.3	88	..	5.7	..	0	5	23	0	5	9	0	1	8	5	0	2	0		
	1130	"	1003.9	985.2	..	30.2	27.0	26.0	33.1	79	..	6.1	..	0	13	12	0	1	9	3	2	4	3	3	5	0		
	1230	"	1000.9	982.2	..	29.4	26.4	25.4	31.9	80	..	5.7	..	0	9	20	1	3	8	2	1	4	6	4	1	0		
	2330	"	1003.3	984.4	..	26.4	25.7	25.5	32.6	95	..	4.5	..	0	1	15	1	1	5	3	1	4	0	1	14	0		
Mainpuri	0830	157	1003.7	986.1	-1.4	27.3	25.9	25.3	32.2	87	+11	4.0	+0.6	2.4	0	0	21	0	1	7	2	1	0	10	0	9	0	
	1730	"	1000.2	982.8	..	29.7	27.2	25.7	33.1	79	..	4.6	..	1.4	0	0	13	0	1	6	0	1	0	4	1	17	0	
Aligarh	0830	187	1004.0	983.9	..	27.5	25.8	25.1	31.4	86	+15	5.8	+3.2	3.9	0	0	27	1	0	14	2	2	1	7	0	3	0	
	1730	"	1001.4	980.6	..	29.8	27.9	26.9	36.3	86	..	6.0	..	4.7	0	0	30	3	0	13	0	5	1	8	0	0	0	
Bareilly	0830	173	1003.7	984.4	-1.5	29.1	26.2	24.6	31.6	78	-2	5.3	+2.0	5.5	0	0	25	0	0	10	7	0	2	1	5	5	0	
	1730	"	1000.5	981.1	..	29.8	26.1	24.5	31.5	74	..	5.4	..	4.0	0	0	22	2	0	6	5	1	3	4	1	8	0	
Bareilly (P.B.O.)	0230	172	1002.5	983.2	..	26.7	25.2	24.7	31.1	89	..	3.7	..	7.0	0	1	28	0	1	13	6	1	1	6	2	1	0	
	0530	"	1002.8	983.5	..	26.4	25.9	24.6	33.4	90	..	4.9	..	8.5	0	0	29	1	1	12	6	1	0	6	2	1	0	
	1139	"	1004.1	985.1	..	30.5	27.2	26.0	33.4	77	..	5.3	..	11.7	0	3	26	1	1	9	9	1	0	3	5	1	0	
	2330	"	1003.6	984.3	..	27.3	25.7	25.2	32.2	88	..	4.1	..	6.0	0	0	28	0	2	15	1	1	2	5	2	2	0	
Meerut	0830	222	1004.3	979.6	-0.8	27.2	25.4	24.9	30.6	85	+9	3.1	+0.7	3.4	0	0	17	0	1	9	0	0	1	5	1	13	0	
Najibabad	0830	270	1004.5	974.4	..	26.8	24.9	23.9	30.3	85	..	3.6	..	2.6	0	0	23	0	3	1	13	0	0	0	6	7	0	
	1730	"	1001.9	972.2	..	29.7	25.9	24.1																				

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—SEPTEMBER 1958. (BHADRA 10—ASVINA 8, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer siren above mean sea level in metres.	Mean pressure in millibars		Mean temperature in °C				Vapour pressure in mb.	Relative humidity %	Cloud amount (Oktas)	Wind speed (Km. p.h.)	No. of observations																
			At mean sea level or height in g.p.m. of nearest standard isobaric level.		At station level								Wind direction																
			At station level	Departure from normal	Dry bulb	Wet bulb	Dew point	Vapour pressure in mb.		Relative humidity %		Departure from normal	Mean amount	Departure from normal	Mean wind speed, Km. per hour	62 or more	20 to 61	1 to 19	N	NE	E	SE	S	SW	W	NW	Calm	Variable	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28		
Punjab (India) (Including Delhi)—(Contd.)	0530	221	1002.9	978.1	..	25.3	24.1	23.7	29.2	91	..	5.3	..	2.3	0	0	17	0	3	4	2	0	4	3	0	13	0		
	0630	"	1004.0	979.2	-1.1	26.6	25.1	24.3	31.0	88	+23	4.9	+3.3	4.5	0	0	25	0	6	6	2	1	5	4	1	5	0		
	1130	"	1004.3	979.5	..	30.6	26.4	24.4	31.0	71	..	5.5	..	2.6	0	0	20	0	1	5	7	0	4	1	2	10	0		
	1730	"	1001.5	977.0	..	29.8	25.7	23.9	31.0	72	..	5.3	..	5.3	0	0	25	2	7	4	5	0	1	4	4	5	0		
	2330	"	1003.6	978.9	..	25.9	24.0	23.6	28.2	87	..	3.3	..	1.5	0	0	11	0	1	2	2	1	4	0	1	19	0		
Karnal	0830	249	1004.1	976.1	..	21.2	24.6	23.8	29.3	88	..	5.1	..	..	0	0	0	0	0	0	0	0	0	0	0	30	0
Patiala	0830	251	1004.0	976.1	..	27.0	24.7	23.7	29.6	83	..	5.1	..	4.4	0	0	23	1	2	1	11	0	0	1	7	7	0		
Ambala	0830	272	1003.3	972.9	-1.8	26.6	24.6	23.8	29.6	87	+13	3.3	+0.8	2.6	0	0	18	0	8	0	0	10	0	3	0	5	12	0	
Ambala (P.B.O.)	0230	278	1002.5	971.5	..	26.2	24.2	23.6	28.6	86	..	5.1	..	6.6	0	0	22	3	1	5	5	0	4	0	4	8	0		
Ambala (Aerodrome)	0530	"	1002.6	971.5	..	25.6	24.1	23.5	29.0	88	..	5.1	..	5.6	0	0	23	1	2	4	6	2	3	3	2	7	0		
	1130	"	1004.0	973.3	..	29.3	25.3	23.8	29.4	71	..	5.5	..	8.3	0	1	26	2	1	4	10	3	1	1	5	3	0		
	2330	"	1003.2	972.2	..	26.5	24.5	23.7	29.4	85	..	4.9	..	5.4	0	0	25	2	4	3	8	0	3	3	2	5	0		
	0530	273	1002.8	972.0	..	24.6	24.1	23.8	29.2	95	..	5.1	..	..	0	1	19	0	1	9	1	0	1	6	2	10	0
	0830	"	1003.9	973.3	..	26.7	24.9	23.9	30.3	86	..	5.4	..	..	0	1	25	0	1	7	9	0	0	7	2	4	0
Chandigarh	0830	347	1004.0	965.5	..	26.8	24.4	23.4	28.1	82	..	3.6	..	..	0	0	11	0	0	1	5	0	0	0	5	19	0
Fudhiana	0830	247	1004.3	976.8	-0.7	27.4	24.9	23.8	29.1	78	+6	4.1	+2.3	2.3	0	0	17	1	6	1	4	1	2	2	0	13	0		
Ferozepur	0830	200	1003.9	981.4	..	26.5	24.7	23.5	29.6	84	..	3.7	..	1.0	0	0	10	0	7	1	0	0	0	0	2	20	0		
Amritsar	0830	234	1003.4	977.7	..	24.1	23.7	23.4	28.7	96	..	4.0	..	8.1	0	3	20	1	8	9	3	1	1	0	0	7	0		
Pathankot	0830	344	1005.2	966.9	..	24.9	23.3	22.5	27.3	87	..	5.3	..	3.2	0	0	13	1	8	1	2	0	0	1	0	17	0		
Pathankot (Aero-drome)	0830	312	1004.9	970.1	..	25.7	23.3	22.1	26.9	81	..	5.6	..	4.0	0	0	26	3	5	12	3	1	1	1	0	4	0		
Himachal Pradesh	1130	1005.0	970.4	..	27.9	24.2	22.5	27.1	74	..	6.0	..	5.3	0	0	29	3	6	3	1	5	7	4	0	1	0			
	1730	1001.9	967.7	..	28.9	24.8	23.0	27.8	72	..	5.2	..	5.0	0	1	29	3	5	1	1	4	11	4	0	0				
	0830	493	1005.5	950.5	..	23.5	22.5	22.1	26.0	92	..	6.7	..	2.0	0	0	18	5	4	0	1	5	2	0	0	12	1		
Mandi	0830	761	1004.6	921.2	..	22.2	20.8	20.1	23.5	86	..	5.2	..	1.2	0	0	12	0	4	3	3	1	0	1	0	18	0		
Jammu and Kashmir	0830	1587	1472.4	838.8	..	15.1	14.2	13.6	15.6	92	..	4.9	..	3.0	0	0	13	0	0	0	0	0	11	1	1	0	5	12	0
Gulmarg	0830	1483.4	839.9	0	17.0	15.3	14.4	16.3	84	-1	4.6	+2.3	2.0	0	0	13	0	0	0	0	0	12	1	0	2	3	12	0	
	1130	1479.4	839.7	..	22.7	17.5	14.7	16.6	62	..	4.0	..	3.0	0	0	20	2	6	2	7	1	0	4	4	10	0			
	1730	1448.2	836.8	..	23.5	17.5	14.1	15.7	57	..	3.5	..	3.6	0	0	18	0	1	0	8	2	0	4	3	12	0			
	0830	2655	3115.6	739.8	-0.1	11.8	10.2	8.9	11.2	83	+3	4.1	+1.9	1.7	0	0	11	0	3	1	2	0	3	2	0	19	0		
	1730	3106.9	738.6	..	15.2	12.9	11.3	13.3	79	..	3.7	..	3.2	0	0	22	1	3	6	2	1	7	2	0	8	0			
Lah	0530	3514	3095.8	665.7	-	5.7	1.9	-3.9	4.7	51	..	3.8	..	5.1	0	0	20	6	11	1	0	0	1	1	0	9	0		
Skardu (R)	0830	3117.1	667.9	+0.7	10.8	5.3	-1.5	5.6	44	-6	4.2	+1.3	0.9	0	0	4	0	1	1	0	0	1	1	0	26	0			
	1730	3072.8	665.0	..	16.8	10.1	4.7	8.5	48	..	4.0	..	4.5	0	0	18	0	0	0	0	4	10	4	0	12	0			
	0830	2288			..	25.4	22.8	21.7	25.7	79	+11	5.2	+3.4	..	0	0	30	1	29	0	0	0	0	0	0	0	0		
Gilgit (R)	0830	1491																											
Misgar (R)	0830	3106																											
Jammu (R)	0830	1730																											

(R) Register not received.

*Observations for 29 days.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—SEPTEMBER, 1958. (BHADRA 10—ASVINA 8, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres.	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Octas)			Wind speed (Km.p.h.)			No. of observations											
			At mean sea level or height in gm. of nearest standard isobaric level.			At station level						Mean amount			Departure from normal			Mean wind speed, Km. per hour			Wind direction								
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	N	NE	E	SE	S	SW	W	NW	Calm	Variable	
Rajasthan (West)																													
Sri Ganganagar	0530	177	1002.4	982.5	..	25.3	23.7	22.8	27.8	87	..	3.6	..	3.0	0	0	20	2	6	2	2	3	4	0	1	10	0		
	0830	"	1003.5	983.7	..	26.0	24.1	23.3	28.6	85	+25	4.2	+3.5	3.5	0	0	24	0	7	4	1	2	8	0	2	6	0		
	1130	"	1004.0	984.3	..	29.3	25.3	23.6	29.6	73	..	4.5	..	5.1	0	0	25	2	3	4	3	1	8	3	1	5	0		
	1730	"	1000.8	981.2	..	30.2	25.7	23.7	29.1	71	..	3.5	..	3.0	0	0	23	3	7	4	1	2	5	1	0	7	0		
	2330	"	1002.7	983.0	..	26.6	24.7	23.9	29.6	85	..	2.8	..	3.6	0	0	16	0	3	5	3	1	3	0	1	14	0		
Churu	0830	291	1004.1	971.9	..	26.0	24.2	23.4	29.3	86	..	5.1	..	9.8	0	2	26	0	8	5	1	0	3	9	2	2	0		
	1730	"	1001.2	969.4	..	29.9	25.2	22.3	28.3	68	..	5.2	..	11.6	0	1	28	6	1	4	0	1	5	6	5	1	1		
Bikaner	0830	224	1003.4	978.6	-1.6	26.5	25.3	24.8	31.9	91	+23	2.4	+0.9	8.2	0	1	26	0	9	1	3	0	8	3	3	3	0		
	1730	"	1000.9	976.7	..	31.7	27.2	25.3	32.5	71	..	2.7	..	9.9	0	0	30	3	11	0	4	1	9	1	1	0	0		
Bikaner (P.B.O.)	0530	224	1002.2	977.0	..	25.2	23.9	23.3	28.0	89	..	3.4	..	7.0	0	1	18	2	4	0	1	2	9	1	0	11	0		
	1130	"	1003.6	978.8	..	30.5	25.5	23.3	28.7	67	..	4.3	..	9.4	0	0	30	3	8	1	2	5	6	3	2	0	0		
Jaisalmer	0830	242	1003.4	976.4	..	26.4	23.7	22.8	27.8	79	..	2.7	..	19.1	0	10	19	2	5	0	3	8	10	0	1	1	0		
	1730	"	999.7	973.4	..	33.3	24.8	20.5	24.1	49	..	3.2	..	19.2	0	9	20	2	4	0	4	8	10	0	1	1	0		
Phalodi	0830	234	1004.1	977.9	..	25.9	23.7	22.6	27.8	83	..	4.3	..	17.1	0	9	21	5	3	3	1	2	10	4	2	0	0		
	1730	"	1001.2	975.6	..	31.9	24.6	20.9	24.7	54	..	4.0	..	19.4	0	12	18	5	5	2	0	5	8	2	3	0	0		
Nagaur	0830	298	1003.4	970.1	..	26.0	23.9	23.2	27.8	83	..	4.4	..	11.6	0	0	28	4	6	1	0	4	8	2	3	2	0		
	1730	"	1000.6	967.7	..	29.3	25.1	22.9	28.1	70	..	4.4	..	11.3	0	3	26	3	5	2	0	5	6	3	5	1	0		
Jodhpur	0230	224	1002.6	977.4	..	25.8	23.8	22.8	27.6	84	..	3.4	..	7.3	0	1	23	3	6	1	0	1	9	4	0	6	0		
	0530	"	1002.6	977.4	..	25.1	23.6	22.9	28.0	88	..	3.5	..	8.3	0	1	24	2	9	0	0	0	10	4	0	5	0		
	0830	"	1004.0	978.8	-0.9	26.1	24.1	23.1	28.6	84	+11	5.3	+2.1	11.1	0	2	25	3	6	1	0	2	9	4	2	3	0		
	1130	"	1004.2	979.3	..	29.0	24.9	23.0	27.8	71	..	6.0	..	12.3	0	4	24	2	4	4	1	1	12	4	0	2	0		
	1730	"	1001.2	976.4	..	29.9	24.9	22.5	27.6	64	..	5.4	..	11.0	0	3	26	4	3	2	1	1	14	3	1	1	0		
Barmer	2330	"	1003.6	978.5	..	26.5	24.1	22.8	28.1	81	..	3.5	..	7.6	0	1	24	3	4	3	0	5	7	3	0	5	0		
	0530	194	1001.9	980.1	..	25.7	23.9	23.0	28.3	86	..	4.3	..	12.1	0	3	26	2	3	0	2	4	8	6	4	1	0		
	0830	"	1003.7	982.0	-1.6	26.6	24.3	23.3	28.8	83	+12	5.9	+3.3	12.0	0	1	29	3	2	0	2	7	8	3	5	0	0		
	1130	"	1003.7	982.2	..	30.4	24.9	22.2	26.7	63	..	5.5	..	14.2	0	4	26	5	2	1	2	6	7	2	5	0	0		
	1730	"	1000.3	978.9	..	31.8	25.2	22.1	26.2	59	..	5.6	..	10.6	0	1	29	4	3	2	2	10	6	1	2	0	0		
Rajasthan (East)	2330	"	1002.9	981.2	..	27.6	24.4	22.9	28.2	77	..	3.9	..	9.5	0	0	27	2	3	1	4	5	9	1	2	3	0		
	0830	"	..	..	..	28.1	26.2	25.2	32.2	85	..	5.5	..	17.5	0	10	20	1	4	7	8	0	3	5	2	0	0
	1730	"	..	..	..	29.4	26.7	25.6	32.7	80	..	5.5	..	15.8	0	6	23	2	3	3	6	2	7	4	1	0	
	Alwar	0830	271	1003.6	973.4	..	26.7	24.6	23.6	28.8	84	..	2.6	..	3.0	0	0	22	1	7	3	2	0	7	0	7	0		
	1730	"	1001.3	971.5	..	29.0	25.6	24.3	30.0	76	..	5.8	..	5.4	0	1	18	2	1	2	3	4	3	0	3	6	1		
Sikar	0830	433	1004.0	956.2	..	25.6	23.3	22.0	26.9	81	..	6.0	..	3.1	0	0	29	0	4	8	0	0	2	12	3	1	0		
	1730	"	1000.7	953.5	..	28.8	24.3	21.9	27.0	68	..	5.6	..	3.3	0	0	30	0	7	3	3	1	4	8	4	0	0		
Jaipur	0830	436	1004.1	955.8	-2.3	25.4	23.7	22.7	27.8	86	+16	5.9	+3.1	10.5	0	1	29	1	3	5	2	4	0	9	6	0	0		
	1130	"	1004.0	956.1	..	28.4	24.5	22.6	27.5	71	..	5.9	..	12.9	0	1	28	3	3	4	3	3	0	7	6	1	0		
Jaipur (Sanganer Aerodrome)	1730	"	1000.9	953.2	..	28.9	24.7	22.7	28.3	70	..	5.1	..	10.0	0	0	30	3	6	4	2	2	8	3	0	0	0		
	0230	390	1002.5	958.9	..	24.5	23.7	23.3	28.5	93	..	3.9	..	0	1	26	2	2	8	2	1	2	6	4	3	0	0		
	0530	"	1002.7	959.0	..	23.9	23.4	23.0	28.2	95	..	5.1	..	0	1	23	1	4	7	2	0	2	4	4	6	0			
	0830	"	1003.8	960.4	..	25.8	24.2	23.4	28.3	86	..	5.9	..	0	2	26	0	1	8	3	1	0	8	7	2	0			
	1130	"	1003.7	960.7	..	28.2	25.1	23.8	29.7	75	..	5.9	..	0	6	24	0	0	9	1	2	3	7	8	0	0			
Dholpur	1730	"	1000.6	957.8	..	28.8	25.2	24.1																					

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—SEPTEMBER 1958. (BHADRA 10—ASVINA 8, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres.	Mean pressure in millibars.		Mean temperature in °C				At station level	At mean sea level or height in s.p.m. of nearest standard isobaric level.	Departure from normal,	Dry bulb	Wet bulb	Dew point	Vapour pressure in mb.	Relative humidity %	Cloud amount (Octas).		Mean wind speed, Km. per hour.	Wind speed (Km.p.h.)		No. of observations							
			At station level	At mean sea level or height in s.p.m. of nearest standard isobaric level.	Mean temperature in °C	Vapour pressure in mb.	Relative humidity %	Mean amount								Departure from normal	62 or more	20 to 61	1 to 19	N	NE	E	SE	S	SW	W	NW	Calm	Variable
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
Rajasthan (East)—(Contd.)																													
Udaipur—(Contd.)	0530	582	1003.3	938.8	..	22.6	21.7	21.2	25.1	92	..	5.9	..	2.3	0	0	16	1	0	0	0	4	5	5	1	14	0		
	0830	"	1004.3	940.2	-2.7	24.6	22.6	21.7	25.8	84	+9	5.7	+2.8	3.5	0	0	19	2	0	0	1	3	4	7	2	11	0		
	1130	"	1004.2	940.6	..	26.8	23.7	22.4	26.9	77	..	6.4	..	4.9	0	0	23	3	0	0	0	3	4	10	3	7	0		
	1730	"	1001.7	938.1	..	26.1	23.6	22.5	27.3	81	..	6.6	..	4.9	0	0	25	3	0	0	0	4	7	11	0	5	0		
	2330	"	1003.9	940.1	..	23.4	22.4	21.9	26.0	92	..	5.6	..	2.4	0	0	12	0	0	0	0	1	8	2	1	18	0		
	Erinpura (Jawai Dam)	0830	295	1004.5	971.4	..	25.5	23.6	22.5	27.6	84	..	5.7	..	8.1	0	0	28	2	1	0	1	8	15	1	0	2	0	
Madhya Pradesh (West) Gwalior (P.B.O.)	1730	"	1001.5	967.7	..	27.9	24.5	22.9	27.9	75	..	6.0	..	7.2	0	0	28	0	1	1	5	3	13	5	0	2	0		
Sheopur Kalan	0230	207	1002.2	979.0	..	25.5	24.5	24.1	29.9	92	..	5.0	..	6.6	0	1	23	1	4	2	3	3	6	5	0	6	0		
	0530	"	1002.3	979.1	..	25.1	24.3	24.0	29.7	93	..	5.2	..	7.1	0	2	23	1	4	5	1	3	6	5	0	5	0		
	0830	"	1003.7	980.7	-1.0	26.8	25.1	24.3	30.5	87	+11	5.9	+2.1	9.5	0	2	26	1	3	6	3	2	3	8	2	2	0		
	1130	"	1003.8	980.9	..	29.3	26.1	24.6	31.3	76	..	6.0	..	9.9	0	2	28	1	3	6	3	4	4	6	3	0	0		
	1730	"	1000.8	977.9	..	28.5	25.6	24.3	30.3	79	..	5.7	..	8.4	0	1	28	2	3	4	3	3	8	3	1	0			
	2330	"	1003.4	980.2	..	25.8	24.8	24.4	30.9	92	..	4.9	..	5.9	0	1	23	1	2	4	3	2	5	7	0	6	0		
Guna	0830	235	1004.1	977.8	..	26.4	24.7	23.8	29.8	87	..	6.3	..	7.5	0	0	27	1	3	2	3	5	6	5	2	3	0		
	1730	"	1000.8	974.7	..	28.5	25.3	23.7	29.6	76	..	6.1	..	10.0	0	1	28	2	4	1	1	5	6	4	6	1	0		
	0530	478	1002.9	949.8	..	23.2	22.4	22.0	26.5	93	..	6.9	..	7.6	0	0	26	0	3	1	3	4	6	9	0	4	0		
	0830	"	1004.1	951.1	-1.6	24.5	23.2	22.5	27.4	89	+6	6.9	+3.2	5.8	0	0	27	1	1	3	1	4	3	13	1	3	0		
	1130	"	1004.0	951.5	..	26.9	23.8	22.5	27.3	77	..	6.5	..	6.9	0	0	30	0	4	2	1	3	4	9	7	0	0		
	1730	"	1001.0	948.6	..	27.0	23.9	22.5	27.5	77	..	6.0	..	9.3	0	0	30	5	1	2	1	4	4	7	6	0	0		
Rajgarh	0830	382	1003.6	961.1	..	24.6	23.6	22.9	28.4	90	..	6.8	..	9.7	0	2	28	0	5	0	4	1	15	2	3	0	0		
	1730	"	1000.9	958.9	..	27.6	24.9	23.4	29.3	79	..	5.4	..	7.7	0	0	30	3	6	0	2	2	9	3	5	0	0		
Neemuch	0830	496	1005.1	950.1	-1.9	24.1	22.6	21.8	26.4	87	+8	5.9	+2.3	11.7	0	1	29	0	8	0	0	2	6	12	2	0	0		
	1730	"	1002.0	947.7	..	26.9	23.4	21.7	26.1	75	..	6.5	..	12.8	0	2	25	2	2	0	0	0	9	12	2	3	0		
	0830	486	1005.2	951.0	..	22.8	22.3	22.0	26.5	95	..	6.9	..	6.0	0	0	24	0	0	0	0	1	11	1	1	6	0		
	1730	"	1002.1	948.7	..	26.2	23.5	22.2	27.8	77	..	6.6	..	10.9	0	0	28	1	2	1	0	2	10	10	2	2	0		
	0830	293	1006.2	973.3	..	24.4	23.4	23.0	27.9	91	..	6.9	..	11.8	0	2	28	0	0	0	2	1	9	17	1	0	0		
	1730	"	1003.1	970.6	..	27.4	24.1	22.6	27.3	76	..	5.8	..	14.3	0	1	28	0	0	0	0	0	10	18	1	1	0		
Indore	0530	567	1004.1	941.1	..	22.0	21.4	21.1	24.1	95	..	6.1	..	17.0	0	10	19	0	1	0	0	2	13	9	4	4	0		
	0830	"	1005.1	942.6	-1.9	23.2	22.1	21.5	26.0	94	+11	6.9	+1.5	18.3	0	10	20	1	0	0	0	2	10	10	7	0	0		
	1130	"	1005.2	943.0	..	25.7	22.9	21.5	25.7	79	..	6.9	..	19.5	0	13	17	2	1	0	0	0	3	11	9	4	0	0	
	1730	"	1002.1	940.1	..	25.1	22.8	21.7	26.8	76	..	6.5	..	19.5	0	11	18	4	0	0	0	1	9	10	5	1	0		
	2330	"	1005.4	942.4	..	22.7	21.8	21.4	25.7	92	..	4.9	..	14.8	0	4	26	1	0	0	0	2	17	6	4	0	0		
	0230	523	1003.2	945.3	..	22.9	22.1	21.1	25.9	93	..	5.6	..	11.3	0	3	22	2	1	0	0	0	3	8	10	1	5	0	
Bhopal (Bairagarh)	0530	"	1003.6	945.4	..	22.4	21.7	21.5	25.3	94	..	6.4	..	12.6	0	3	24	1	1	0	0	4	8	9	4	3	0		
	0830	"	1005.0	947.1	-1.2	23.9	22.6	22.0	26.2	89	+6	7.0	+2.4	14.9	0	7	22	1	3	0	1	2	7	10	5	1	0		
	1130	"	1004.5	947.2	..	26.7	23.4	21.9	26.3	75	..	7.1	..	17.0	0	8	21	3	2	0	1	3	5	8	7	1	0		
	1730	"	1001.4	944.3	..	26.9	23.4	21.8	25.9	75	..	5.7	..	14.8	0	4	25	5	0	1	0	3	4	8	8	1	0		
	2330	"	1004.7	946.8	..	23.4	22.5	22.1	26.7	92	..	5.6	..	10.0	0	1	25	2	1	0	0	0	3	8	10	2	4	0	
	0830	318	1005.8	970.2	-1.4	25.1	23.3	22.5	27.3	86	+5	6.2	+1.8	7.8	0	0	30	0	0	0	0	0	4	10	13	3	0	0	
Hoshangabad	1730	"	1002.4	967.2	..	28.2	24.2	22.3	27.1	71	..	6.4	..	6.5	0	0	30	1	1	0	0	0	1	6	14	7	0	0	
	0830	302	1005.3	971.4	-1.7	24.4	23.5	22.8	28.2	87	+2	6.6	+1.6	1.4	0	0	12	0	0	1	0	0	5	6	0	18	0		
	1730	"	1001.6	96																									

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—SEPTEMBER 1958. (BHADRA 10—ASVINA 8, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres.	Mean pressure in millibars.			Mean temperature in °C			At station level	Departure from normal.	Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Cloud amount (Oktas)	Wind speed, Km.p.h.	No. of observations													
																			Wind direction												
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	Calm	Variable	
Madhya Pradesh (East)	Sutna . . .	0530	317	1002.9	967.4	..	24.7	23.9	23.6	28.9	94	..	4.5	..	5.7	0	0	22	0	1	9	2	0	1	9	0	8	0	0		
		0830	"	1004.3	969.0	-0.8	26.7	24.0	23.9	29.6	85	+5	5.5	+1.4	5.3	0	0	25	0	0	7	4	1	0	13	0	5	0	0		
		1130	"	1003.8	968.8	..	29.0	25.7	24.2	30.2	76	..	6.0	..	8.2	0	2	23	0	1	4	4	1	3	9	3	5	0	0		
		1730	"	1001.0	966.0	..	28.1	25.2	24.0	29.8	79	..	6.0	..	5.6	0	0	24	0	0	9	2	0	2	8	3	6	0	0		
	Sidhi . . .	2330	"	1003.9	968.4	..	25.6	24.6	24.0	29.8	92	..	4.0	..	3.1	0	0	14	0	2	3	2	2	1	4	0	16	0	0		
		0830	..	..	..	..	26.6	24.4	23.3	28.7	82	..	6.1	..	9.3	0	0	30	1	1	9	4	1	8	6	0	0	0	0
Umaria . . .		1730	..	..	..	..	28.0	24.7	22.7	28.3	75	..	5.5	..	6.8	0	0	28	4	2	3	4	3	3	6	3	2	0	0
	0830	459	1004.4	953.7	..	25.8	24.0	23.2	28.5	86	+6	6.0	+0.8	7.5	0	0	23	1	0	2	4	1	5	8	2	7	0	0			
		1730	"	1000.8	950.5	..	27.3	24.7	24.0	30.0	82	..	5.9	..	3.2	0	0	14	1	1	3	2	0	1	5	1	16	0	0		
	Jabalpur . . .	0530	393	1003.3	959.5	..	23.9	23.1	22.7	28.2	93	..	6.4	..	2.5	0	0	18	0	2	0	1	4	7	4	0	12	0	0		
		0830	"	1004.8	961.1	-0.9	25.5	23.8	23.0	27.9	86	+5	6.5	+2.0	6.2	0	0	25	0	1	1	3	4	6	9	1	5	0	0		
		1130	"	1004.3	961.0	..	28.1	24.7	23.2	28.2	75	..	6.4	..	7.4	0	0	29	3	2	2	3	3	5	8	3	1	0	0		
Mandla . . .		1730	"	1001.3	958.1	..	27.5	24.7	23.3	28.9	77	..	6.3	..	4.9	0	0	22	2	1	2	1	4	6	6	0	8	0	0		
		2330	"	1004.4	960.0	..	24.9	23.8	23.3	28.9	91	..	5.9	..	5.0	0	0	20	0	1	0	5	2	7	4	1	10	0	0		
		0830	443	1004.9	955.8	..	25.1	23.5	22.7	27.7	87	..	6.1	..	4.8	0	0	23	2	2	0	6	5	1	0	6	7	1	0		
		1730	"	1001.4	952.8	..	26.8	24.2	22.9	28.0	80	..	5.5	..	(b) 5.8	0	0	24	5	0	0	3	3	1	1	7	5	4	0	0	
	Pendra . . .	0530	625	1003.4	934.5	..	22.6	22.0	21.4	26.0	94	..	7.0	..	3.6	0	0	16	5	1	0	1	3	0	3	3	14	0	0		
		0830	"	1004.7	936.1	-1.2	24.2	22.8	22.2	26.7	89	+7	6.8	+2.5	4.9	0	0	21	5	2	0	2	2	4	2	4	9	0	0		
Ambikapur . . .		1130	"	1004.0	935.9	..	26.3	23.7	22.5	27.5	80	..	7.1	..	6.6	0	1	25	7	2	2	1	4	4	5	0	0	0	0		
		1730	"	1001.4	933.3	..	25.2	23.4	22.6	27.6	86	..	7.4	..	4.8	0	0	22	4	1	3	1	1	6	1	4	2	8	0	0	
		2330	"	1004.5	935.7	..	23.1	22.5	22.2	26.9	95	..	6.7	..	4.4	0	0	20	4	0	2	2	4	2	5	1	1	10	0	0	
		0830	611	1004.7	937.7	..	25.0	23.2	22.5	27.1	86	..	5.6	..	7.8	0	0	27	5	2	1	4	3	3	6	3	3	0	0		
		1730	"	1001.4	934.9	..	26.3	23.8	23.0	27.6	81	..	4.9	..	9.9	0	1	29	7	3	1	5	3	4	4	3	0	0	0		
	Champa . . .	0830	245	1005.2	977.7	..	26.5	24.8	24.0	30.0	87	..	6.8	..	4.2	0	0	23	1	1	4	3	1	1	11	2	7	0	0		
Raigarh . . .		1730	"	1001.8	974.6	..	28.0	25.4	24.1	30.5	80	..	7.4	..	4.6	0	0	23	6	1	3	1	1	6	1	7	0	0	0		
		0830	220	1004.7	980.1	..	27.1	25.2	24.3	30.4	85	..	6.9	..	4.4	0	0	30	0	4	0	0	11	1	1	6	1	0	0		
		1730	"	1001.2	976.7	..	28.1	25.4	24.5	30.3	81	..	6.9	..	4.0	0	0	26	2	1	3	6	0	7	1	6	4	0	0		
		0530	293	1003.7	970.0	..	24.8	23.8	23.3	27.9	93	..	7.2	..	4.1	0	0	25	1	0	2	2	4	5	9	2	5	0	0		
		0830	"	1005.1	971.8	-0.8	26.1	24.3	23.5	28.9	86	+5	7.0	+2.4	4.0	0	0	26	0	1	2	1	4	4	7	7	4	0	0		
		1130	"	1004.5	971.4	..	28.4	25.2	22.9	29.0	75	..	7.1	..	6.0	0	1	28	4	0	1	5	5	8	5	1	0	0			
Kanker . . .		1730	"	1001.6	968.6	..	28.0	24.6	23.1	28.2	76	..	7.2	..	5.3	0	0	25	0	0	1	0	5	4	13	2	5	0	0		
		2330	"	1004.4	971.2	..	25.9	24.4	23.7	29.5	88	..	6.7	..	5.5	0	0	26	1	0	2	1	2	10	8	2	4	0	0		
		0830	402	1005.4	960.9	-0.4	25.9	23.6	22.4	27.5	81	-1	5.5	-0.1	1.6	0	0	10	0	0	0	0	0	7	1	2	19	0	0		
		1730	"	1002.2	957.9	..	27.2	24.0	22.5	27.5	76	..	6.6	..	1.3	0	0	11	0	1	0	0	0	0	7	1	2	1	0	0	
	Jagdalpur (P.B.O.)	0530	553	1004.5	943.3	..	22.5	22.0	21.7	25.2	95	..	7.3	..	1.6	0	0	9	0	0	0	0	0	1	3	4	1	21	0	0	
		0830	"	1005.8	945.0	-0.5	24.6	22.9	22.3	26.5	87	+3	6.9	+1.9	3.1	0	0	19	0	0	0	0	0	2	11	4	2	11	0	0	
Gujarat		1130	"	1004.9	944.4	..	26.7	23.5	22.0	26.2	76	..	7.0	..	5.8	0	0	23	1	2	0	0	0	2	5	10	3	7	0	0	
		1730	"	1002.9	942.2	..	24.9	23.0	22.1	26.8	85	..	7.5	..	3.8	0	0	21	2	0	1	0	0	5	3	7	3	9	0	0	
		2330	"	1005.6	944.5	..	23.2	22.4	22.2	26.6	94	..	6.9	..	2.1	0	0	9	0	0	0	0	0	2	4	2	1	21	0	0	
	Deesa . . .	0830	136	1004.9	989.5	-2.2	25.7	24.4	23.9	29.6																					

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—SEPTEMBER, 1958. (BHADRA 10—ASVINA 8, 1880 SAKA)

Division and station	Hour of observation I.S.T.	No of observations																		Wind direction																	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28								
Gujarat—(Contd.)																																					
Baroda (Aerodrome)—(Contd.)																																					
Broach	1730	38	1003.0	996.8	..	29.0	25.6	24.2	29.9	76	..	5.2	..	9.2	0	1	29	0	0	0	0	3	16	9	2	0	0	0	0	0	0	0	0				
Surat	0830	17	1005.9	1003.9	..	26.1	24.7	24.1	29.9	89	..	5.0	..	5.8	0	0	0	30	0	0	0	0	4	17	3	6	0	0	0	0	0	0	0	0			
	1730	"	1003.2	1001.2	..	29.3	25.3	23.6	29.3	72	..	5.9	..	10.6	0	0	0	30	0	0	0	0	1	5	14	4	6	0	0	0	0	0	0	0			
	0530	12	1004.7	1003.4	..	25.5	24.3	23.7	29.5	90	..	5.5	..	4.9	0	0	0	20	1	0	0	0	2	11	5	1	10	0	0	0	0	0	0	0	0		
	0830	"	1006.5	1005.2	-1.5	26.6	25.0	24.3	30.4	87	+6	6.1	+0.9	5.1	0	0	0	28	1	1	0	0	0	3	8	11	4	2	0	0	0	0	0	0	0	0	
	1130	"	1006.7	1005.4	..	29.1	25.8	24.3	30.5	76	..	6.4	..	8.4	0	1	28	1	0	0	0	0	3	13	8	4	1	0	0	0	0	0	0	0	0		
	1730	"	1003.8	1002.5	..	29.1	25.7	24.2	30.3	75	..	6.1	..	10.0	0	1	29	0	0	0	0	0	5	19	5	1	0	0	0	0	0	0	0	0	0		
Saurashtra & Kutch	2330	"	1006.1	1004.8	..	26.8	25.1	24.4	30.5	87	..	5.6	..	7.1	0	0	0	29	0	0	0	0	1	2	23	3	0	1	0	0	0	0	0	0	0	0	
Naliya	0330	"	..	..	..	..	26.7	24.8	23.3	29.7	86	..	5.3	..	17.9	0	10	19	0	0	0	0	0	3	15	9	2	1	0	0	0	0	0	0	0	0
Bhuj (P.B.O.)	0230	106	1003.5	991.6	..	25.6	24.0	23.3	28.6	88	..	4.1	..	11.4	0	3	23	0	0	0	0	0	0	16	9	1	4	0	0	0	0	0	0	0	0		
	0530	"	1003.4	991.4	..	25.1	23.8	23.3	28.4	89	..	3.1	..	10.5	0	2	27	0	0	0	0	0	0	12	15	2	0	0	0	0	0	0	0	0	0		
	0830	"	1004.8	992.9	-2.2	26.4	24.3	23.4	28.6	84	+8	4.6	+0.8	14.7	0	4	26	1	0	0	0	0	0	12	14	2	0	0	0	0	0	0	0	0	0		
	1130	"	1905.0	993.2	..	29.8	24.7	22.2	26.9	65	..	5.3	..	16.8	0	7	23	2	0	0	0	0	0	12	14	2	0	0	0	0	0	0	0	0	0		
	1730	"	1002.1	990.3	..	30.1	25.1	22.6	27.7	66	..	5.0	..	18.0	0	8	22	1	1	0	0	0	0	12	14	2	0	0	0	0	0	0	0	0	0		
	2330	"	1004.8	992.9	..	25.8	24.1	23.2	28.7	86	..	3.9	..	14.1	0	5	25	0	0	0	0	0	0	18	10	2	0	0	0	0	0	0	0	0	0		
Bhuj (Aerodrome)	0830	80	1004.8	995.7	..	26.6	24.4	23.3	28.7	82	..	5.2	..	14.9	0	6	24	0	1	0	0	0	0	1	6	18	4	0	0	0	0	0	0	0	0	0	
	1130	"	1004.7	995.7	..	29.9	24.6	22.0	26.7	64	..	5.8	..	20.6	0	14	15	0	1	0	0	0	0	0	10	16	2	1	0	0	0	0	0	0	0	0	0
Kandla	0830	5	1005.2	1004.7	..	26.9	24.8	23.8	29.7	84	..	5.0	..	19.7	0	9	21	0	0	0	0	0	0	23	2	0	0	0	0	0	0	0	0	0	0		
Mandvi	1730	"	1002.6	1002.1	..	30.0	25.4	23.2	28.8	68	..	4.9	..	35.7	0	25	5	0	1	0	0	0	2	25	1	1	0	0	0	0	0	0	0	0	0		
	0830	9	1005.0	1004.0	..	27.4	26.6	25.9	34.1	92	..	4.9	..	31.5	2	22	6	0	0	0	0	0	0	7	15	2	0	6	0	0	0	0	0	0	0	0	
Dwarka	0830	11	1006.0	1001.7	-1.6	26.7	25.1	24.3	30.6	87	+2	6.5	+2.3	18.1	0	9	21	0	0	0	0	0	0	5	17	8	0	0	0	0	0	0	0	0	0	0	
Porbander	0930	7	1006.2	1005.4	..	26.3	25.9	25.6	32.8	93	..	6.5	..	14.5	0	4	25	0	0	0	0	0	0	9	18	3	0	0	0	0	0	0	0	0	0	0	
Porbander(Aerodrome)	0830	7	1006.3	1005.5	..	28.5	27.3	26.5	35.3	91	..	6.5	..	18.6	0	7	23	0	0	0	0	0	0	8	16	4	1	0	0	0	0	0	0	0	0	0	
	1130	"	1006.0	1001.7	..	27.8	25.5	24.5	30.8	82	..	6.1	..	23.5	0	16	14	0	0	0	0	0	0	6	17	7	0	0	0	0	0	0	0	0	0	0	
Jamnagar	0530	23	1004.0	1001.4	..	25.3	24.2	23.6	29.2	91	..	4.7	..	19.2	0	15	15	0	0	0	0	0	0	1	10	1	0	0	0	0	0	0	0	0	0	0	
	0830	"	1005.4	1002.8	-2.0	27.1	25.0	24.0	30.0	83	+5	5.4	+1.8	22.3	0	20	10	0	0	0	0	0	0	14	14	2	0	0	0	0	0	0	0	0	0	0	
	1130	"	1005.3	1003.3	..	29.7	25.6	23.7	29.4	71	..	6.0	..	28.0	0	26	4	0	0	0	0	0	0	5	22	3	0	0	0	0	0	0	0	0	0	0	
	1730	"	1003.4	1000.6	..	26.9	25.3	23.6	29.3	73	..	5.1	..	34.6	0	27	3	0	0	0	0	0	0	1	5	21	3	0	0	0	0	0	0	0	0	0	0
Rajkot (Aerodrome)	0830	134	1005.8	990.7	-1.7	25.5	24.4	23.9	29.8	91	+10	4.8	+0.5	22.0	0	19	11	0	0	0	0	0	0	1	16	9	4	0	0	0	0	0	0	0	0	0	0
	1130	"	1005.9	990.9	..	28.5	24.7	22.9	27.9	73	..	4.9	..	26.9	0	24	6	0	0	0	0	0	0	1	10	6	1	0	0	0	0	0	0	0	0	0	0
Surendranagar	0830	74	1005.3	996.9	..	26.5	25.2	24.7	31.1	91	..	5.8	..	15.5	0	4	26	0	0	0	0	0	0	4	13	5	8	0	0	0	0	0	0	0	0	0	0
	1730	"	1002.4	994.1	..	30.7	26.6	24.7	31.3	73	..	6.1	..	15.5	0	6	24	0	1	0	0	0	0	16	6	7	0	0	0	0	0	0	0	0	0	0	
Bhavnagar	0830	17	1006.7	1004.8	-1.0	26.2	24.5	23.8	29.4	86	+11	4.7	+0.1	3.9	0	0	30	1	0	0	0	0	0	1	18	4	6	0	0	0	0	0	0	0	0	0	0
	1730	"	1003.4	1001.5	..	29.6	25.4	23.6	29.0	72	..	6.2	..	17.0	0	4	26	0	0	0	0	0	0	15	10	5	0	0	0	0	0	0	0	0	0	0	
Bhavnagar (Aerodrome)	0830	11	1006.0	1004.8	..	26.7	24.5	23.4	29.0	82</																											

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—SEPTEMBER, 1958. (BHADRA 10—ASVINA 8, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			At station level	Departure from normal	Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Octas)		Wind speed (Km.p.h.)		No. of observations									
			At mean sea level or height in g.p.m. of nearest standard level	At station level	Departure from normal	Mean	amount	Mean								Mean	Wind speed per hour	62 or more	20 to 61	1 to 19	N	NE	E	SE	S	SW	W	NW	Calm	Variable
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28		
Konkan—(Contd.)																														
Bombay (Santa Cruz Aerodrome).	0230	15	1006.5	1004.8	..	25.7	24.4	23.6	29.6	89	..	5.7	..	10.1	0	5	16	1	0	0	0	0	10	8	2	9	0	0		
	0530	"	1006.3	1004.6	..	25.5	24.3	23.5	29.3	90	..	5.3	..	10.4	0	5	15	0	1	0	0	0	0	9	8	2	10	0	0	
	0830	"	1007.9	1006.3	-1.0	26.5	24.9	24.0	30.2	87	+2	6.4	+0.7	13.3	0	8	15	1	0	1	0	0	0	10	9	2	7	0	0	
	1130	"	1008.3	1006.7	..	28.2	25.4	24.0	30.2	79	..	6.0	..	23.2	0	20	9	0	0	0	0	0	0	10	14	5	1	0	0	
	1730	"	1005.8	1004.2	..	27.7	25.0	23.7	29.5	80	..	5.7	..	19.0	0	11	19	2	0	0	0	0	0	10	11	7	0	0	0	
	2330	"	1007.9	1006.2	..	26.0	24.6	23.8	29.8	88	..	4.9	..	10.1	0	2	20	0	0	1	0	0	0	11	7	3	8	0	0	
Alibag . . .	0330	7	1008.2	1007.4	-0.8	26.7	24.9	24.1	30.0	86	+3	6.3	+0.5	16.0	0	9	21	1	3	1	6	0	10	7	2	0	0	0		
Harnai . . .	0830	20	1008.3	1006.0	+0.2	26.4	24.7	23.7	29.7	87	+2	7.1	..	10.3	0	5	16	0	1	4	4	3	2	7	0	9	0	0		
Ratnagiri . . .	0330	35	1009.0	1005.0	-0.3	25.9	24.3	23.6	29.0	88	..	5.0	..	..	0	5	25	0	1	17	0	0	1	11	0	0	0	0	
Devgad . . .	0830	36	1009.1	1005.0	+0.4	25.9	24.8	24.0	30.4	90	0	5.7	-0.9	9.6	0	4	25	1	4	5	3	4	4	5	3	1	0	0		
Vengurla. . .	0230	9	1008.2	1007.2	..	24.5	23.8	23.4	28.9	94	..	5.1	..	2.8	0	1	8	0	0	0	0	0	0	7	2	21	0	0		
	0530	"	1008.1	1007.1	..	24.0	23.3	22.9	28.1	95	..	5.3	..	3.0	0	0	15	3	2	2	1	1	3	2	1	15	0	0		
	0830	"	1009.7	1008.7	..	25.6	24.3	23.7	29.3	90	..	5.7	..	4.3	0	0	20	3	3	0	4	1	4	2	3	10	0	0		
	1130	"	1009.9	1008.9	..	28.1	25.3	24.1	29.9	79	..	5.3	..	8.2	0	0	25	2	0	0	0	0	2	11	6	4	5	0		
	1730	"	1007.2	1006.2	..	27.4	25.0	23.9	29.7	82	..	6.3	..	8.8	0	0	27	1	0	0	0	0	0	4	13	9	3	0	0	
	2330	"	1009.6	1008.6	..	25.0	24.1	23.7	29.2	93	..	5.3	..	2.1	0	0	9	0	1	1	0	0	0	2	2	3	21	0	0	
Maharashtra																														
Nandurbar . . .	0830	206	1006.6	983.4	..	25.6	24.1	23.1	28.7	88	..	7.0	..	11.8	0	1	29	0	0	0	0	0	0	29	1	0	0	0	0	
	1730	"	1003.6	980.6	..	27.3	24.4	22.7	28.2	78	..	7.2	..	11.7	0	0	29	0	0	0	0	0	0	25	3	1	1	0	0	
Jalgaon . . .	0830	201	1006.4	983.7	..	25.3	23.5	22.6	27.5	85	..	6.1	..	13.0	0	4	25	0	0	0	0	0	0	2	7	16	4	1	0	
Malegaon . . .	0830	437	1006.5	958.0	-1.3	25.1	22.4	21.1	24.8	79	+3	5.2	+0.9	7.9	0	0	29	0	0	0	0	0	0	1	4	18	6	1	0	
	1730	"	1003.2	955.2	..	27.8	22.7	20.0	23.4	64	..	6.3	..	12.6	0	3	26	2	0	0	0	0	0	2	14	11	1	0	0	
Deolali . . .	0830	571	1008.0	944.5	..	22.8	21.9	21.5	25.7	93	..	6.2	..	14.5	0	5	25	0	0	0	0	0	0	1	17	11	1	0	0	
	1730	"	1005.3	942.3	..	24.8	22.3	21.1	24.9	81	..	6.2	..	18.6	0	12	18	0	0	0	0	0	0	1	10	17	2	0	0	
Aurangabad . . .	0830	581	1007.5	943.2	-1.0	23.2	21.6	20.6	24.5	85	+7	5.2	-0.1	11.3	0	0	30	1	0	0	0	0	0	7	21	1	0	0		
	1730	"	1003.4	940.2	..	27.3	22.6	20.4	23.9	66	..	5.5	..	13.6	0	2	28	2	1	0	0	0	0	3	14	10	0	0	0	
Aurangabad (Chikalthana Aerodrome). . .	0230	579	1005.7	941.3	..	21.6	20.6	20.1	23.5	91	..	4.1	..	8.5	0	1	22	0	0	0	0	0	0	3	16	4	7	0	0	
	0530	"	1005.7	941.2	..	21.0	20.3	19.9	23.3	94	..	4.6	..	7.8	0	2	17	0	0	0	0	0	0	2	12	5	11	0	0	
	0830	"	1006.8	942.8	..	23.4	21.5	20.6	24.3	84	..	5.0	..	10.5	0	2	25	2	0	0	0	0	0	0	5	14	6	3	0	0
	1130	"	1006.2	942.9	..	26.7	22.8	21.0	24.9	71	..	6.0	..	16.0	0	6	23	3	0	0	0	0	0	0	4	16	6	1	0	0
	1730	"	1002.8	939.8	..	27.4	22.6	20.3	23.9	66	..	5.9	..	17.4	0	9	20	3	0	0	0	0	0	0	5	10	11	1	0	0
	2330	"	1007.0	942.7	..	22.6	21.0	20.4	23.7	87	..	4.2	..	11.5	0	0	26	0	0	0	0	0	0	0	5	13	8	4	0	0
Ahmednagar . . .	0830	657	1007.4	935.0	-0.9	23.2	20.9	19.8	23.0	81	+3	4.3	-0.1	5.2	0	0	30	0	1	0	0	0	0	0	20	0	9	0	0	0
	1730	"	1003.3	932.1	..	27.2	22.0	19.5	22.6	64	..	5.7	..	7.1	0	0	30	0	0	0	0	0	0	0	2	0	28	0	0	0
Parbhani . . .	0830	423	1007.3	960.2	..	24.5	22.4	21.3	25.4	82	..	5.7	..	15.1	0	0	30	0	0	0	0	0	0	0	4	21	5	0	0	0
	1730	"	1002.7	956.4	..	29.4	23.8	20.9	24.8	62	..	6.7	..	13.8	0	3	26	1	0	0	0	0	0	0	2	20	6	1	0	0
Poona . . .	0530	559	1006.5	944.2	..	21.6	20.5	20.1	23.3	90	..	4.6	..	2.0	0	0	12	0	0	0	0	0	0	0	10	1	1	18	0	0
	0830	"	1007.9	945.9	-0.8	23.6	21.6	20.6	24.4	83	+2	5.6	+0.2	2.3	0	0	14	0	0	0	0	0	0	0	1	8	5	0	16	0
	1130	"	1007.0	945.8	..	27.2	22.6	20.5	23.9	67	..	5.6	..	8.1	0	0	29	0	0	0	0	0	0	0	3	21	5	1	0	0
	1730	"	1004.7	943.4	..	26.0	22.1	20.3	23.8	71	..	5.6	..	8.8	0	0	29	0												

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—SEPTEMBER, 1958 (BHADRA 10—ASVINA 8, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars.			Mean temperature in °C			Vapour pressure in mb.	Relative humidity %	Cloud amount (Oktas).	Wind speed, Km.p.h.	No. of observations															
													Wind direction															
			At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Dry bulb	Wet bulb	Dew point					N	NE	E	SE	S	SW	W	NW	Calm	Variable						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
Maharashtra—(Contd.). Sholapur—(Contd.).	1730	479	1002.9	950.8	..	29.5	22.6	19.3	22.3	55	..	5.7	..	12.4	0	0	30	0	3	0	1	0	10	1	15	0	0	
	2330	"	1007.4	954.3	..	24.9	21.4	19.6	22.8	74	..	5.0	..	12.2	0	0	30	0	2	0	1	0	10	7	10	0	0	
Miraj . . .	0830	554	1008.7	947.2	-0.5	22.8	21.3	20.5	24.2	87	+4	5.7	-0.6	..	0	0	30	0	0	0	0	0	0	29	1	0	0	
Kolhapur . . .	1730	"	1004.5	944.2	..	27.7	22.3	19.6	22.9	63	..	5.9	..	..	0	10	20	0	0	0	0	0	0	0	28	2	0	0
	0530	570	1007.4	943.9	..	21.1	20.2	19.9	23.0	93	..	5.1	..	10.0	0	2	27	0	0	0	0	0	0	0	26	1	1	0
	0830	"	1008.9	945.6	+0.1	22.8	21.2	20.4	23.9	86	-2	6.0	+0.6	7.7	0	0	28	0	0	0	0	0	0	3	23	2	2	0
	1130	"	1008.0	945.4	..	26.5	22.0	19.8	23.1	67	..	5.9	..	15.6	0	9	21	1	0	1	0	0	0	0	2	20	6	0	0
Vidarbha . . .	1730	"	1005.4	942.8	..	25.3	21.9	20.2	23.9	74	..	5.8	..	17.7	0	7	23	0	0	0	0	0	0	1	28	1	0	0
	0830	650	1006.2	934.4	..	22.6	21.0	20.1	23.8	86	..	6.6	..	9.4	0	0	30	0	0	0	0	0	0	8	0	22	0	0
Buldhana . . .	1730	"	1002.7	931.9	..	25.9	22.4	20.7	24.7	74	..	5.8	..	5.7	0	0	29	0	0	0	0	0	0	3	0	26	1	0
Akola . . .	0830	282	1005.7	974.2	-1.4	25.5	23.0	21.7	26.1	80	+2	5.5	+0.7	3.7	0	0	25	0	0	0	1	0	0	3	9	12	5	0
	1130	"	1005.6	974.3	..	28.5	23.9	21.6	25.9	67	..	6.4	..	8.0	0	1	27	1	0	0	0	0	0	5	16	6	1	0
Akola (Aerodrome) . . .	1730	"	1002.1	971.0	..	29.7	24.1	21.3	25.5	62	..	6.8	..	5.4	0	0	28	0	0	0	0	0	0	3	14	11	2	0
	0530	309	1004.2	969.4	..	22.9	21.9	21.4	25.6	91	..	4.8	..	6.5	0	0	30	0	0	0	0	0	0	2	26	2	0	0
Amravati . . .	2330	"	1005.2	970.5	..	24.8	22.8	22.3	26.2	86	..	4.7	..	7.0	0	0	27	0	0	0	0	0	0	10	16	1	3	0
	0830	370	1006.0	964.8	-0.8	24.7	22.8	21.8	26.1	84	+4	5.4	+0.5	9.2	0	1	29	0	0	0	0	0	0	10	15	5	0	0
Yeotmal . . .	0830	451	1005.9	955.8	..	24.2	22.5	21.5	25.5	85	..	5.5	..	13.9	0	3	27	1	0	0	0	1	5	13	10	0	0	
	1730	"	1002.4	952.9	..	27.4	23.6	21.7	25.5	72	..	5.7	..	10.3	0	0	29	2	0	1	0	2	2	10	12	1	0	0
Nagpur . . .	0230	310	1003.4	968.6	..	24.2	23.4	23.1	29.3	94	..	5.8	..	5.8	0	2	23	4	0	0	0	0	0	2	9	10	5	0
	0530	"	1003.8	968.9	..	23.6	23.0	22.7	27.8	95	..	5.9	..	4.3	0	0	21	1	0	0	0	0	0	3	10	7	9	0
	0830	"	1005.6	970.9	-0.8	25.7	23.7	22.8	26.8	84	+3	5.9	+1.2	8.2	0	0	28	4	1	0	0	0	0	6	7	10	2	0
	1130	"	1005.0	970.7	..	28.9	24.7	23.0	27.8	72	..	6.4	..	10.4	0	1	29	2	1	0	0	0	0	5	7	15	0	0
	1730	"	1001.1	967.5	..	28.5	24.8	23.1	29.4	73	..	6.1	..	9.6	0	0	30	2	1	1	0	1	8	13	4	0	0	
Gondia . . .	2330	"	1005.0	970.2	..	24.7	23.8	23.3	28.4	92	..	5.2	..	5.6	0	1	24	2	0	0	1	2	3	7	10	5	0	
	0830	313	1005.4	970.4	..	26.0	24.0	23.1	28.3	85	..	5.5	..	4.1	0	0	29	5	1	0	1	1	6	7	5	1	3	
Brahmapuri . . .	0830	229	1005.9	980.2	..	25.8	24.3	23.5	29.1	88	..	6.5	..	5.4	0	0	24	0	1	0	0	0	0	11	2	5	6	0
	1730	"	1002.2	976.9	..	28.3	25.2	23.7	29.4	78	..	6.8	..	5.1	0	0	26	3	1	0	3	4	5	7	3	4	0	
Chanda . . .	0830	193	1005.9	984.2	-0.9	26.2	24.1	23.1	28.4	83	+3	6.4	+1.8	8.7	0	0	29	2	0	0	0	0	0	2	6	11	8	1
	1730	"	1002.4	980.9	..	28.5	24.8	23.0	28.4	73	..	6.3	..	9.5	0	2	28	3	1	1	1	2	4	9	9	0	0	
Sironcha . . .	0830	123	1005.5	992.5	..	26.1	24.5	24.0	29.3	87	..	6.2	..	4.1	0	0	27	1	0	1	3	4	4	8	6	3	0	
	1730	"	1002.9	989.2	..	28.7	25.3	23.7	29.9	76	..	7.2	..	4.3	0	1	21	3	3	0	2	0	4	3	7	8	0	0
Coastal Andhra Pradesh . . .	0530	20	1005.9	1003.7	..	26.9	24.4	23.3	28.6	81	..	6.4	..	3.7	0	0	17	0	0	0	0	0	0	3	10	4	13	0
	0830	"	1007.7	1005.5	0	28.8	24.8	22.9	28.1	71	+1	6.0	+0.6	5.7	0	0	28	0	0	0	0	0	0	4	23	1	2	0
	1130	"	1006.7	1004.5	..	31.9	25.6	22.8	27.5	59	..	5.6	..	9.3	0	0	30	0	0	0	0	0	0	6	20	4	0	0
	1730	"	1003.5	1001.3	..	32.6	26.5	23.6	29.6	60	..	6.4	..	3.9	0	0	26	0	0	1	2	1	1	15	6	4	0	0
	2330	"	1006.8	1004.5	..	28.1	26.2	25.5	32.4	85	..	5.0	..	1.9	0	0	13	0	0	0	0	4	0	2	7	0	17	0
	0830	12	1007.0	1005.7	..	29.2	26.6	25.5	32.6	82	..	5.6	..	9.0	0	3	20	0	0	0	0	0	0	14	9	0	7	0
	1730	"	1003.6	1002.3	..	31.7	28.3	26.7	35.8	77	..	6.3	..	3.3	0	0	17	0	1	0	2	0	1	12	1	13	0	
	0830	106	1007.2	995.3	..	27.5	24.5	23.1	27.3	77	+7	6.4	+0.6	4.1	0	0	28	0	0	0	0	1	3	24	0	2	0	
	1730	"	1003.3	991.5	..	29.4	25.0	22.8	27.9	69	..	6.8	..	3.2	0	0	21	3	0	0	0	1	1	15	1	9	0	
	0230	24	1004.2	1001.6	..	26.2	24.9	24.3	30.5	89	..	5.6	..	3.4	0	0	11	0	0	0	0	0	0	2	6	3	19	0
Gannavaram . . .	0530	"	1004.7	1002.1	..	25.7	24.5	23.9	29.7	90	..	6.3	..	5.3	0	1	16	0	0	0	0	0	0	2	11	4	13	0

TABLE III.—SUMMARY OF OBSERVATIONS AT FIXED HOURS—SEPTEMBER, 1958 (BHADRA 10—ASVINA 8, 1880 SAKA)

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—SEPTEMBER, 1958. (BHADRA 10—ASVINA 8, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Cloud amount (Octas)			Wind speed (Km. p.h.)			No. of observations														
															Wind direction														
			At station level	Dew point	Vapour pressure in mbs.	At mean sea level or height in G.P.M. of nearest standard isobaric level	Departure normal	Relative humidity %	Departure from normal	Mean amount	Departure from normal	Mean wind speed, Km. per hour	20 to 61	1 to 19	N	NE	E	SE	S	SW	W	NW	Calm	Variable					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28		
Madras State—(Contd.)	0230	88	1006.7	996.6	..	26.3	22.9	21.1	25.3	74	..	3.1	..	17.4	0	12	12	0	0	0	0	0	1	21	2	6	0		
	0530	"	1007.0	997.0	..	25.8	22.6	21.0	24.7	75	..	4.4	..	19.1	0	11	17	0	0	0	0	0	0	24	4	2	0		
	0830	"	1008.7	998.7	-0.6	28.1	23.5	21.2	25.3	66	-6	4.8	+0.6	23.1	0	19	10	0	0	0	0	0	0	26	3	1	0		
	1130	"	1007.6	997.8	..	32.2	24.7	20.9	25.0	52	..	4.6	..	25.0	0	18	12	0	0	0	0	0	0	18	10	0	2		
	1730	"	1004.1	994.4	..	33.5	24.5	20.0	23.2	46	..	5.5	..	19.0	0	13	14	0	0	0	1	2	0	12	11	3	2		
	2330	"	1008.2	998.3	..	27.3	23.3	21.0	25.7	70	..	4.8	..	18.8	0	12	14	1	0	0	0	0	0	15	15	0	0		
Coimbatore	0830	409	1009.5	964.0	0	25.4	22.3	20.7	24.5	75	-6	5.1	+1.2	20.4	0	18	12	0	0	0	0	0	0	15	0	0	0		
	1730	"	1005.4	960.5	..	28.5	23.0	20.1	23.6	61	..	6.4	..	19.1	0	24	6	0	0	0	0	0	0	9	16	5	0	0	
	0530	398	1007.9	963.1	..	22.2	21.5	21.1	25.1	94	..	4.5	..	14.8	0	4	26	0	0	0	1	15	13	1	0	0	0		
	0830	"	1009.3	964.8	..	24.9	22.3	21.0	24.9	80	..	4.4	..	18.7	0	10	19	0	0	0	0	0	0	13	14	2	0	1	
	1130	"	1007.8	964.0	..	29.7	23.2	19.8	23.1	56	..	4.4	..	24.2	0	13	17	0	0	0	0	4	11	12	3	0	0		
	1730	"	1005.0	961.1	..	28.1	23.1	20.5	24.2	64	..	5.6	..	32.8	0	24	6	0	0	0	0	0	0	13	16	0	0	0	
Salem	0530	278	1007.6	976.3	..	23.9	22.3	21.4	25.5	86	..	5.7	..	3.3	0	0	25	0	0	0	0	0	0	6	16	2	1	0	
	0830	"	1009.1	978.0	-0.3	26.4	23.0	21.4	25.3	74	-4	4.9	+0.2	6.0	0	0	30	0	0	0	0	0	0	3	20	5	2	0	
	1130	"	1007.7	977.0	..	30.0	23.9	20.8	25.3	58	..	5.3	..	7.7	0	0	30	0	0	0	0	0	0	1	8	19	2	0	
	1730	"	1003.9	973.5	..	31.4	24.2	20.6	24.3	54	..	5.9	..	2.5	0	0	19	0	0	0	0	0	0	2	1	15	1	11	
	2330	"	1008.3	977.3	..	26.4	23.3	21.8	26.0	76	..	5.0	..	4.1	0	0	23	0	0	0	0	0	0	13	7	3	0	7	
	0830	127	1008.2	994.0	..	28.9	24.0	21.7	25.6	66	..	3.7	..	4.3	0	0	25	0	0	1	0	8	4	9	5	2	1		
Kallakurichi	0830	127	1008.2	994.0	..	28.9	24.0	21.7	25.6	66	..	3.7	..	4.3	0	0	29	0	0	1	0	8	4	9	5	2	1		
	1730	"	1003.7	989.7	..	32.7	24.6	20.7	24.9	50	..	4.7	..	6.4	0	0	29	0	0	1	0	8	4	9	5	2	1		
	0530	12	1006.4	1005.1	..	25.9	23.7	22.7	27.5	82	..	5.1	..	0.5	0	0	5	0	0	0	0	0	0	1	9	1	0	19	
	0830	"	1008.2	1006.9	-0.5	28.8	24.4	22.3	27.1	68	-7	5.5	+0.9	1.6	0	0	11	0	0	0	0	0	0	1	6	9	1	11	
	1130	"	1007.3	1006.0	..	32.7	25.2	21.5	26.0	52	..	4.4	..	2.7	0	0	19	0	0	0	0	2	1	18	2	2	1	0	
	1730	"	1004.5	1003.2	..	30.5	26.2	24.3	30.6	70	..	5.2	..	6.4	0	0	26	0	1	2	18	2	2	1	0	3	4		
Vellore	0530	214	1006.9	982.8	..	25.3	22.1	20.4	23.8	75	..	5.0	..	3.8	0	0	22	2	0	0	0	0	0	0	1	15	4	8	0
	0830	"	1008.4	984.4	+0.1	27.5	22.9	20.5	24.4	66	-7	5.3	+1.3	6.0	0	0	29	0	1	0	0	0	0	0	2	22	5	0	0
	1130	"	1007.0	983.3	..	31.1	23.8	20.0	23.7	52	..	5.5	..	8.4	0	0	30	1	0	0	0	0	0	0	3	7	11	3	2
	1730	"	1003.7	980.2	..	31.7	23.9	19.7	23.7	52	..	6.6	..	4.9	0	0	28	3	1	0	0	0	0	0	3	7	11	3	2
	2330	"	1007.5	983.5	..	27.4	23.1	20.9	26.2	69	..	4.9	..	2.6	0	0	17	0	0	0	0	0	0	0	2	13	2	13	0
	0830	29	1007.8	1004.5	..	28.9	24.7	22.6	27.7	69	..	4.9	..	12.6	0	5	24	2	0	0	1	0	6	12	8	1	0		
Tambaram(Aerodrome)	1730	"	1003.8	1000.6	..	31.0	25.5	23.0	28.2	63	..	5.5	..	20.1	0	16	14	1	1	1	17	5	0	3	2	0	0		
	0230	16	1006.0	1004.3	..	27.5	25.5	24.6	31.0	84	..	4.7	..	7.8	0	1	26	1	0	0	0	3	9	10	3	1	3		
	0530	"	1006.4	1004.7	..	26.8	24.8	23.7	29.7	84	..	5.4	..	9.0	0	5	23	1	0	0	0	1	9	16	1	2	0		
	0830	"	1008.2	1006.5	+0.1	28.7	25.0	23.2	28.6	73	+1	5.3	+0.2	13.1	0	8	20	1	0	0	1	0	0	3	12	11	2	0	
	1130	"	1007.1	1005.4	..	32.7	25.7	22.3	27.2	55	..	4.9	..	15.5	0	10	18	1	0	1	0	0	1	0	1	1	0	0	
	1730	"	1004.4	1002.7	..	31.0	26.7	24.7	31.5	70	..	5.5	..	12.4	0	3	27	2	0	12	10	3	1	1	1	0	4	0	
Madras (Nungambakkam)	0830	230	1007.5	1005.8	..	28.1	26.1	25.3	32.1	85	..	4.5	..	7.7	0	2	24	0	0	1	3	17	4	1	0	4	0		
	0930	6	1007.9	1007.2	..	28.7	24.6	22.4	27.6	70	..	5.2	..	7.3	0	0	27	0	0	0	0	1	0	10	12	4	3	0	
	0830	4	1009.9	1009.4	0	25.5	24.3	23.8	29.7	91	..	5.7	..	1.6	0	0	13	3	1	1	0	2	1	1	17	3	3	0	
	1730	"	1007.7	1007.3	..	27.2	25.7	24.7	31.8	84	..	6.1	..	8.8	0	2	24	3	0	0	2	0	0	0	1	1	26	0	
	0830	26	1010.1	1007.1	-0.3	24.6	23.9	23.6	29.1	95	+4	7.1	+0.9	0.4	0	0	4	0	0	0	0	0	0	1	3	5	16	0	
	1730	"	1007.7	1004.8	..	27.3	25.3	24.3	30.5	84	..	6.5	..	2.1	0	0	14	0	0	0	0	0	0	1	3	3	1		

TABLE III.—SUMMARY OF OBSERVATIONS AT FIXED HOURS—SEPTEMBER, 1958 (BHADRA 10—ASVINA 8, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Cloud amount (Cktas)	Wind speed (Km. p. h.)	No. of observations																			
			At mean sea level or height in g.p.m. of nearest standard barometric level	Departure from normal	At station level	Dry bulb	Wet bulb	Dew point			Vapour pressure in mbs.	Relative humidity %	Departure from normal	Mean amount	Mean wind speed, Km. per hour	Wind direction														
			4	5	6	7	8	9			10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28			
Mysore (North)— (Contd.)																														
Bijapur . . .	0830	594	1007.9	942.6	-0.4	23.4	21.4	20.4	24.2	34	+6	6.5	+1.7	10.3	0	0	30	4	0	0	0	0	0	8	14	4	0	0		
	1730	"	1002.7	938.6	..	29.4	23.6	20.9	25.0	61	-	6.9	-	7.5	0	0	30	3	0	1	0	0	0	0	22	4	0	0		
Belgaum (C.T.O.) .	0830	753	1009.4	926.5	-0.1	21.9	20.4	19.6	23.0	87	0	5.6	-0.3	6.3	0	0	30	0	0	0	0	0	0	0	1	23	6	0	1	
	1730	"	1005.9	923.8	..	23.6	21.1	19.9	23.2	80	..	6.8	..	11.9	0	0	30	0	0	0	0	0	0	0	0	26	4	0	0	
Belgaum (Samre Aerodrome).	0530	747	1008.0	925.5	..	20.7	19.8	19.4	22.5	92	..	5.7	..	5.8	0	1	14	0	0	0	0	0	0	0	0	15	0	15	0	
	0830	"	1009.2	926.9	..	22.0	20.7	20.0	23.5	89	..	6.1	..	6.4	0	1	19	0	0	0	0	0	0	0	0	20	0	10	0	
	1130	"	1008.2	926.8	..	25.3	21.8	20.6	23.6	75	..	6.0	..	13.0	0	5	23	0	0	0	0	0	0	0	0	27	1	2	0	
	1730	"	1005.5	924.3	..	24.9	21.8	20.6	23.9	77	..	6.1	..	21.8	0	19	11	0	0	0	0	0	0	0	0	30	0	0	0	
Gadag . . .	0830	650	1009.3	937.5	+0.1	23.3	20.9	19.6	23.0	80	-2	6.3	+0.9	15.3	0	1	29	0	0	0	0	0	0	0	6	18	6	0	0	
	1730	"	1004.9	934.3	..	26.5	21.5	18.8	21.8	64	..	6.2	..	18.2	0	9	21	0	1	1	0	0	0	0	0	4	23	1	0	0
Gadag (P.B.O.) .	0530	661	1007.7	934.5	..	21.5	20.4	19.9	23.3	91	..	6.0	..	15.4	0	1	29	0	0	0	0	0	0	0	6	23	1	0	0	
	0830	"	1009.0	936.1	..	23.3	21.2	20.3	23.7	84	..	5.6	..	13.5	0	2	28	0	0	0	0	0	0	0	8	21	1	0	0	
	1130	"	1007.6	935.7	..	27.1	22.2	20.2	23.2	66	..	5.7	..	14.9	0	3	27	1	0	0	0	0	0	0	3	25	1	0	0	
	1730	"	1004.6	932.9	..	26.5	21.9	19.9	23.0	68	..	5.9	..	15.6	0	5	22	1	0	0	1	0	0	0	6	19	0	3	0	
	2330	"	1008.9	935.9	..	22.5	21.0	20.3	23.9	88	..	5.6	..	16.3	0	3	26	0	0	0	0	0	0	0	7	22	0	1	0	
Raichur . . .	0830	400	1008.3	963.7	-0.3	24.9	22.5	21.2	25.4	80	+4	5.0	+0.9	9.8	0	1	26	2	0	0	0	0	0	0	4	9	6	6	3	0
	1730	"	1002.8	959.5	..	30.2	23.3	20.1	23.0	57	..	5.5	..	8.9	0	1	22	2	2	0	0	0	0	0	2	6	4	7	7	0
Mysore (South)																														
Bellary . . .	0830	449	1008.4	958.6	-0.3	25.4	22.1	20.2	23.5	72	+2	5.7	+0.7	18.1	0	0	30	0	0	0	0	0	0	0	7	0	23	0	0	
	1730	"	1003.6	954.6	..	29.5	23.4	19.9	24.2	58	..	6.4	..	17.5	0	0	30	0	0	0	0	0	0	0	12	0	18	0	0	
Chitaldrug . . .	0830	733	1009.5	928.6	0	21.9	20.1	19.0	22.2	83	+3	7.2	+1.0	10.7	0	1	28	0	0	0	0	0	0	0	13	16	0	1	0	
	1730	"	1005.0	925.5	..	25.9	21.2	18.7	21.4	65	..	5.9	..	7.3	0	0	24	0	0	0	0	0	0	0	2	9	12	1	6	0
Shimoga . . .	0830	571	1009.9	946.5	..	22.9	21.3	20.5	24.0	86	..	6.6	..	3.5	0	0	25	1	0	0	0	0	0	0	2	10	10	1	5	1
	1730	"	1006.1	943.5	..	25.6	22.2	20.8	24.5	81	..	6.4	..	3.1	0	0	29	0	0	0	0	0	0	0	7	21	1	1	0	
Balehonnur . . .	0830	..	..	..	..	19.9	19.0	18.5	21.3	92	-1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hassan . . .	0830	960	1500.0	905.2	..	20.0	18.0	18.3	21.2	90	+8	6.9	+1.1	10.0	0	0	29	1	0	0	0	0	0	0	2	22	4	1	0	
	1730	"	1480.8	902.6	..	23.4	20.3	18.8	21.7	75	..	6.6	..	12.3	0	0	28	0	0	0	0	0	0	0	5	22	1	2	0	
Mysore . . .	0830	767	1010.3	925.8	+0.1	21.9	19.9	18.6	22.1	82	+3	3.7	-2.1	10.0	0	2	28	3	1	4	4	5	6	2	5	0	0	0		
	1730	"	1005.6	922.7	..	26.6	21.0	18.0	20.8	60	..	4.7	..	15.9	0	10	20	2	0	0	0	0	0	0	1	8	12	7	0	0
Bangalore (Central Observatory).	0230	921	1482.9	907.4	..	20.0	19.1	18.5	21.6	91	..	5.9	..	11.6	0	0	28	0	0	0	0	0	0	0	4	22	2	2	0	
	0830	"	1498.5	909.1	0	20.8	19.4	18.6	21.6	87	+3	7.1	-0.5	13.2	0	0	30	1	0	0	0	0	0	0	4	19	6	0	0	
	1130	"	1501.3	908.5	..	24.9	20.6	18.5	21.3	67	..	6.7	..	16.4	0	3	27	0	0	0	0	0	0	0	1	18	11	0	0	
	1730	"	1476.8	905.8	..	25.8	20.6	17.9	20.4	61	..	6.8	..	13.4	0	0	30	2	1	0	0	0	0	0	2	17	8	0	0	
Bangalore (Aerodrome)	0530	897	1481.0	910.0	..	19.7	19.0	18.6	21.5	93	..	6.4	..	14.9	0	4	23	0	0	0	0	0	0	0	1	24	2	3	0	
	0830	"	1500.3	911.6	..	21.5	19.6	18.7	21.5	84	..	7.0	..	18.4	0	11	18	1	0	0	0	0	0	0	0	24	4	1	0	
	1130	"	1503.2	911.1	..	25.4	20.6	18.0	20.9	63	..	6.6	..	19.0	0	10	19	0	0	0	0	0	0	0	0	22	7	1	0	
	1730	"	1478.5	908.3	..	26.3	20.8	17.8	20.5	60	..	6.5	..	16.7	0	8	17	2	0	0	0	0	0	0	2	18	3	5	0	
	2330	"	1497.3	911.3	..	21.8	20.0	19.1	22.0	85	..	5.4	..	14.5	0	4	23	0	0	0	0	0	0	0	1	26	0	3	0	
Kerala																														
Kozhikode . . .	0530	5	1009.3	1008.8	..	24.5	23.7</																							

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—SEPTEMBER, 1958 (BHADRA 10—ASVINA 8, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Cloud amount (Oktas)			Wind speed (Km. p. h.)			No. of observations																
															Wind direction																
			At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Mean amount	Departure from normal	Mean wind speed, Km. per hour	62 or more	20 to 61	1 to 19	N	NE	E	SE	S	SW	W	NW	Calm	Variable					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28				
Kerala—(Contd.) Alleppey . . .	0830	4	1010.6	1010.2	..	27.1	25.2	24.4	30.6	85	..	5.8	..	6.6	0	0	30	5	7	*3	1	0	0	4	10	0	0				
	1730	"	1007.8	1007.4	..	28.1	25.9	24.8	31.6	83	..	6.0	..	14.8	0	1	29	2	0	0	0	0	0	0	2	26	0	0			
Punalur . . .	0830	34	1010.7	1006.9	..	24.6	23.6	23.1	28.4	93	..	1.9	..	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0			
	1730	"	1007.2	1003.4	..	29.7	24.7	22.2	27.1	64	..	4.3	..	7.3	0	0	29	3	0	1	0	0	0	0	0	12	12	1	0		
Trivandrum . . .	0230	64	1008.9	1001.6	..	24.6	23.7	23.3	28.7	92	..	3.7	..	6.0	0	0	30	10	0	0	0	0	0	0	0	1	19	0	0		
	0530	"	1009.0	1001.7	..	24.1	23.3	23.0	28.0	93	..	3.7	..	5.5	0	0	29	1	0	0	0	0	0	0	0	2	15	1	0		
	0830	"	1010.6	1003.3	-0.3	26.5	24.1	22.9	28.1	81	-2	4.1	-1.3	7.1	0	0	29	4	0	0	0	0	0	0	1	0	24	1	0		
	1130	"	1009.9	1002.6	..	29.8	24.9	22.6	27.5	66	..	5.3	..	13.4	0	0	30	2	0	0	0	0	0	0	0	5	23	0	0		
	1730	"	1007.7	1000.4	..	28.0	24.4	22.7	27.7	73	..	4.7	..	13.0	0	1	29	1	0	0	0	0	0	0	0	3	26	0	0		
	2330	"	1010.6	1003.3	..	25.3	23.9	23.3	28.3	89	..	3.9	..	8.2	0	0	30	5	0	0	0	0	0	0	0	0	25	0	0		
	0830	8	1010.6	1009.7	..	27.2	24.4	23.2	28.4	79	..	5.4	..	9.0	0	0	30	13	0	0	0	0	0	0	1	1	15	0	0		
	Airport	"	1010.6	1009.7	..	27.2	24.4	23.2	28.4	79	..	5.4	..	9.0	0	0	30	13	0	0	0	0	0	0	0	1	1	15	0	0	
Arabian Sea Islands	Minicoy *	2																													
	0830	"																													
Amini Divi *	1130	"																													
	1730	"																													
Hill Stations excluding Kashmir	0830	4																													
	Walong (R)	..																													
Kohima . . .	0830	1406	1528.0	862.1	..	22.1	20.5	19.5	22.9	82	..	5.3	..	2.0	0	0	30	7	4	1	11	0	0	1	6	0	0	0			
	1730	"	1485.0	858.5	..	23.1	21.0	20.0	23.6	85	..	6.6	..	2.0	0	0	30	5	2	1	0	0	1	4	17	0	0				
Aijal . . .	0830	"	..	..	..	21.9	21.0	20.9	24.1	92	..	6.0	..	4.7	0	0	27	1	2	15	2	1	2	4	15	0	4	0	
	1730	"	..	..	..	22.7	21.5	21.1	24.9	90	..	7.0	..	4.8	0	0	26	1	1	2	1	2	1	2	4	15	0	4	0
Shillong . . .	0830	1500	1483.3	848.6	-0.2	21.7	19.0	17.6	20.0	78	-1	5.3	-0.3	0.4	0	0	2	0	0	0	0	0	0	1	1	0	0	28	0		
	1730	"	1455.6	845.8	..	20.9	19.0	17.9	20.7	84	..	7.0	..	1.3	0	0	8	0	0	0	0	0	0	1	7	0	0	0	22	0	
Cherrapunji . . .	0830	1313	1479.7	866.6	-1.0	21.4	20.4	19.3	23.4	89	+5	2.7	-3.4	5.1	0	1	29	0	3	9	1	1	13	0	3	0	0	0	0		
	1730	"	1455.4	864.2	..	21.8	20.3	19.5	22.8	87	..	3.2	..	4.5	0	1	29	1	3	6	1	0	19	0	0	0	0	0	0		
Darjiling (Raj Bhawan)	0830	2127	1501.0	790.9	+2.1	18.7	17.2	16.4	18.7	88	+4	6.3	-0.1	0.2	0	0	2	0	0	0	0	0	0	0	1	1	0	0	28	0	
	1730	"	1482.0	789.0	..	17.6	17.0	16.5	19.0	94	..	6.4	..	0.3	0	0	3	1	0	0	0	0	0	0	1	1	0	0	27	0	
Kalimpong . . .	0830	1209	1482.8	877.3	-0.5	21.4	20.0	19.6	22.8	87	-2	3.5	-2.2	2.8	0	0	28	0	0	0	0	0	0	0	0	0	0	0	27	2	0
	1730	"	1468.1	875.8	..	21.5	20.1	19.7	22.6	87	..	3.6	..	2.8	0	0	28	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Katmandu . . .	0830	1324	1480.2	865.6	..	22.3	20.1	18.9	22.0	81	..	5.3	..	0.4	0	0	3	1	0	2	0	0	0	0	0	0	0	0	0	27	0
	1130	"	1475.4	864.9	..	26.0	21.4	19.0	22.2	66	..	5.1	..	1.0	0	0	10	1	1	1	2	1	2	1	1	0	0	0	0	20	0
	1730	"	1454.1	862.9	..	23.2	20.7	19.5	22.6	80	..	6.0	..	0.9	0	0	8	4	0	0	1	1	0	1	1	0	0	0	0	22	0
Mukteswar (Kumaon)	0830	2311	3136.0	772.1	0	15.9	14.8	14.0	16.4	90	+9	6.0	+1.7	10.2	0	3	24	0	10	9	1	0	2	3	2	3	0	0	3	0	
	1730	"	3119.2	770.3	..	16.8	15.6	14.9	17.1	89	..	6.1	..	12.4	0	4	23	0	4	6	2	0	5	8	2	3	0	0	3	0	
Nainital . . .	0830	1953	1465.6	803.4	..	18.2	15.9	14.4	16.9	78	..	5.4	..	9.1	0	2	22	1	1	11	9	0	0	1	1	6	0	0	0	4	0
	1730	"	1444.6	801.6	..	18.7	17.4	16.0	19.1	85	..	6.0	..	7.8	0	0	26	3	1	9	7	0	0	4	2	4	0	0	0	0	
Joshimath . . .	0830	"	18.7	16.7	15.5	18.1	83	..	6.0	..	5.3	0	0	28	3	7	12	1	0	2	0	1	2	2	4	0	2	
	1730	"	20.2	17.8	16.1	18.4	78	..	6.8	..	4.3	0	0	28	1	3	5	2	3	5	5	0	0	2	4	0	2	
Badrinath . . .	0830	"	10.2	7.5	5.0	8.6	70	
	1730	"	4.4	3.5	2.8	7.5	89	
Mussooree . . .	0830	2042	1457.8	794.5	-1.8	17.8	16.2	15.4	17.2	87	-1	5.4	+0.6	2.4	0	0	20	3	3	0	5	5	2								

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—SEPTEMBER, 1958 (BHADRA 10—ASVINA 8, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above sea level in metres	Mean pressure in millibars		Mean temperature in °C				Cloud amount (Oktas)		Wind speed (km.p.h.)		No. of observations															
			At mean sea level or height in e.p.m. of aereal standard isobaric level		At station level		Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Mean amount	Departure from normal	Mean wind speed, Km. per hour	62 or more	20 to 61	1 to 19	N	NE	E	SE	S	SW	W	NW	Calm	Variable
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hill Stations excluding Kashmir (Contd.)																												
Nandi Hills	0830	..	..	..	..	17.3	17.3	17.3	18.6	100	..	..	..	12.1	0	3	27	1	0	0	0	0	11	13	5	0	0
Mercara	0830	1152	1499.8	885.4	+0.4	18.2	17.7	17.4	20.0	95	+3	6.0	-0.4	8.1	0	1	29	5	1	0	0	0	0	13	9	0	2	
Kodaikanal	1730	"	1482.3	883.4	..	20.1	19.0	18.4	21.2	90	..	6.3	..	7.2	0	0	30	0	1	0	0	0	0	15	14	0	0	
	0530	2343	3124.8	769.4	..	11.7	10.2	8.9	11.5	84	..	6.6	..	8.5	0	3	20	4	0	1	0	2	0	3	13	7	0	
	0830	"	3146.9	770.8	+0.5	13.8	11.5	9.6	12.3	77	+1	5.6	+1.1	5.2	0	0	23	0	1	0	1	3	0	8	10	7	0	
	1130	"	3154.3	770.9	..	17.0	14.1	12.1	14.0	73	..	6.6	..	4.5	0	0	21	2	0	0	4	0	0	3	12	9	0	
	1730	"	3131.2	769.3	..	14.3	13.3	12.4	14.0	89	..	7.1	..	3.0	0	0	16	1	0	0	5	1	0	3	6	14	0	
Ootacamund	2330	"	3141.5	770.9	..	12.3	10.9	9.7	12.2	84	..	7.0	..	8.0	0	1	22	5	1	0	0	1	2	0	14	7	0	
Ootacamund	0830	2249	1501.4	779.0	+0.2	13.6	11.9	11.0	12.8	85	+2	4.2	-1.5	6.0	0	3	9	0	0	0	0	0	2	5	5	18	0	
Coonoor	1730	"	1481.6	777.6	..	15.2	13.4	12.4	14.2	83	..	6.3	..	6.4	0	0	15	0	0	0	0	0	0	2	8	5	15	0
Sikkim																												
Lachen*	0830
Tibet																												
Yatung (Chumbi)	0830	..	..	..	..	14.0	12.8	12.2	14.2	88	+3	4.9	+0.7	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lhasa	0830	3685	3130.9	655.9	..	14.3	9.9	6.4	9.7	60	..	2.6	..	3.1	0	0	24	2	4	1	9	0	0	5	3	6	0	
Ceylon																												
Colombo	0830	7	1011.2	1010.4	0	27.5	24.4	23.1	28.2	77	-6	5.3	-0.5	10.0	0	2	26	0	1	1	1	1	16	7	0	2	1	
	1730	"	1008.6	1007.8	..	27.9	24.3	22.7	27.2	74	..	6.5	..	4.0	0	0	29	0	0	0	0	0	0	23	6	0	1	0
Trincomalee	0830	3	1009.0	1008.6	+0.3	25.1	24.1	22.2	26.8	71	-7	3.8	-0.2	19.8	0	16	14	0	0	0	0	0	0	29	1	0	0	0
	1730	"	1006.0	1005.6	..	29.9	25.3	22.9	28.1	66	..	5.4	..	14.5	0	4	26	5	4	3	3	0	12	2	1	0	0	
Batticaloa	0830	3	1009.2	1008.8	..	28.2	24.6	23.0	28.0	74	..	3.3	..	8.1	0	0	25	0	0	2	3	4	5	9	2	5	0	
	1730	"	1006.2	1005.9	..	21.1	26.1	24.6	31.3	81	..	5.2	..	20.3	0	15	15	1	0	4	17	6	1	1	0	0	0	
Hambantota	0830	15	1010.3	1008.5	+0.3	27.1	24.3	23.5	28.3	81	-4	3.6	-0.2	22.3	0	19	11	0	0	0	0	0	0	29	1	0	0	0
	1730	"	1007.1	1005.4	..	27.7	24.4	22.8	27.9	76	..	5.0	..	33.7	0	28	2	0	0	0	0	0	0	28	2	0	0	0
Mannar	0830	4	1009.6	1009.2	..	28.4	25.3	24.0	29.7	77	..	5.6	..	14.5	0	2	28	0	1	0	1	4	24	0	0	0	0	
	1730	"	1006.5	1006.1	..	28.4	25.3	24.0	29.7	77	..	5.5	..	14.9	0	2	28	0	0	0	0	8	22	0	0	0	0	
Hydrometeorological Observatories Damodar Catchment																												
Bokaro	0830	242	1004.6	977.7	..	27.5	25.3	24.2	30.4	83	..	6.0	..	8.6	0	3	26	3	1	10	6	1	3	3	2	1	0	
	1730	"	1001.5	974.7	..	28.0	25.3	24.1	30.0	80	..	6.2	..	7.6	0	1	28	2	2	8	9	2	1	4	1	0		
Hazaribagh	0830	615	1004.0	936.7	..	25.2	23.2	22.1	26.1	82	..	5.9	..	5.6	0	0	22	1	0	13	2	0	0	3	3	8	0	
	1730	"	998.9	931.9	..	25.3	22.3	21.1	23.4	79	..	5.2	..	7.6	0	0	26	0	2	6	10	3	1	3	1	4	0	
Tilaiya	0830	..	..	..	..	26.8	24.7	23.8	29.3	84	..	5.6	..	11.5	0	3	25	2	0	12	3	0	0	9	2	2	0
	1730	..	..	..	..	27.1	24.8	23.7	29.4	82	..	5.8	..	9.5	0	3	23	1	0	11	4	0	1	6	3	4	0
Ramgarh	0830	..	..	..	..	27.3	25.1	24.1	29.9	83	..	5.2	..	2.7	0	0	21	0	7	5	0	1	4	3	1	9	0
	1730	..	..	..	..	27.4	25.1	24.0	29.9	83	..	5.1	..	1.8	0	0	15	0	4	5	0	0	3	3	0	15	0
Panchet Hills	0830	..	..	..	..	28.9	26.0	24.7	31.3	79	..	6.5	..	5.7	0	2	28	1	11	6	4	2	5	0	1	0	0
	1730	..	..	..	..	28.2	25.8	24.7	31.3	82	..	6.7	..	5.9	0	2	28	1	11	7	4	2	4	1	0	0	0
Durgapur	0830	..	..	..	..	28.9	26.4	25.2	32.4	80	..	4.8	..	16.9	0	9	20	1	3	4	9	6	2	3	1	1	0
	1730	..	..	..	..	28.8	26.3	25.3	32.2	82	..	3.9	..	14.7	1	2	27	1	2	3	8	9	2	3	2	0	0
Mahanadi Catchment	Baramul	..	..	..	..	27.8	25.8	25.0	31.5	84	..	6.4	..	5.3	0	0	23	1	0	0	0	6	14	1	1	7	0
	1730	"	1001.2	994.7	..	27.6	26.1	25.3	32.7	87	..	7.2	..	4.0	0	0	16	1	1	0	0	2	6	1	5	14	0	
Hirakud	0830	159	1004.9	987.1	..	27.6	25.5	24.7	31.0	84	..	6.2	..	6.1	0	1	29	2	1	3	4	3	7	9	1	0	0	
	1730	"	1001.7	984.0	..	28.6	26.0	24.9	31.5	81	..	6.6	..	3.9	0	0	26	0	0	2	3	5	7	8	1	4	0	
Khijrawan	0830	..	..	..	..	25.4	23.7	23.0	28.0	87	..	5.9	..	7.7	0	1	24	0	1	0	1	4	11	7	0	5	1
	1730	..	..	..	..	26.3																					

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—SEPTEMBER, 1958 (BHADRA 10—ASVINA 8, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Cloud amount (Oktas)			Wind speed (km. p. h.)			No. of observations																	
			At mean sea level or height in g.p.m. of nearest standard Isobaric level			At station level			Dry bulb			Wet bulb			Departure from normal			Mean amount			Departure from normal			Mean wind speed Km. per hour			Wind direction					
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28		
Hydrometeorological Observatories—(Contd.)																																
Ganga Catchment	Mukhim	0830	..	..	..	..	..	..	19.9	17.5	16.2	18.5	79	..	5.7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Tehri	0830	..	..	..	..	..	..	19.0	17.3	16.3	18.7	85	..	5.7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gandak Catchment	1130	..	..	..	..	..	..	..	24.3	22.4	21.5	25.7	84	..	5.4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	..	..	..	28.5	23.2	20.7	24.6	65	..	5.7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gogra Catchment (Trans Himalayan Region)	Gorkha	0830	..	..	..	..	..	..	22.7	21.7	21.2	25.1	91	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Pokhara	0830	..	..	..	..	..	..	24.2	22.0	20.9	24.8	82	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dailekh	Nawakot	0830	..	..	..	..	..	..	25.1	22.8	21.7	26.2	82	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Jomosom	0830	..	..	..	..	..	..	25.4	23.6	22.9	27.8	86	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bagmati Catchment	Timur	0830	..	..	..	..	..	..	24.5	23.2	22.8	27.4	89	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Dan Lekhura	0830	..	..	..	..	..	..	25.6	23.0	21.7	26.3	80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Butwal	1730	..	..	..	..	..	..	..	17.7	13.2	10.4	12.7	63	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	..	..	..	18.3	13.4	10.3	12.7	61	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kosi Catchment	Chautara	0830	..	..	..	..	..	..	21.5	20.1	19.3	22.6	88	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Okhaldunga (R)	0830	..	..	..	..	..	..	22.6	21.0	20.2	23.7	87	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Angbung	(R)	1130	..	..	..	..	..	..	18.6	17.5	16.9	19.2	90	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	(R)	1730	..	..	..	..	..	..	19.1	18.3	18.0	20.5	93	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplejung	Barahishetra	0830	146	1006.0	989.6	..	26.9	25.1	24.4	30.4	86	..	4.4	..	4.0	0	0	24	1	1	1	0	2	8	5	6	6	0	0			
	1130	"	1005.0	988.8	..	29.7	26.4	25.0	31.7	77	..	6.1	..	7.6	0	0	29	0	2	1	0	1	17	7	1	1	0	0				
Taplejung	1730	"	1002.6	986.3	..	27.6	26.1	25.5	32.5	88	..	5.9	..	3.5	0	0	22	0	3	6	1	1	5	5	1	1	8	0				
	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplejung	0830	..	..	..	..	..	..	..	21.0	19.2	18.2	20.8	84	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	..	..	..	14.3	12.2	10.7	13.0	80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wallungchung Gola	0830	..	..	..	..	..	..	..	21.4	19.7	19.2	21.9	86	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	..	..	..	20.1	19.3	19.0	21.9	93	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhojpur	0830	..	..	..	..	..	..	..	22.6	21.1	20.0	24.0	87	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	..	..	..	22.9	21.3	20.6	24.1	86	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chatrapur	0830	..	..	..	..	..	..	..	22.6	21.1	20.0	24.0	87	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	..	..	..	22.9	21.3	20.6	24.1	86	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tista Catchment	Gangtok	0830	1812	1486.0	818.7	..	18.3	17.5	17.1	19.5	93	..	5.7	..	1.7	0	0	14	2	0	0	2	5	1	3	1	16	0	0			
	1130	"	1476.8	818.0	..	20.6	19.0	18.2	20.9	86	..	6.1	..	4.0	0	0	29	0	0	0	2	12	11	3	1	1	0	0	0			
Geyzing	0830	..	..	..	..	..	..	..	21.4	19.7	19.2	21.9	85	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	..	..	..	20.7	19.0	18.4	20.9	86	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

*Observations for 29 days. †Observations for 28 days.

(b) Mean of 29 days. (R) Register not received.

†Data not available.

(g) Mean of 24 days.

**Data included under Hill Stations.

MONTHLY MEANS OF UPPER WINDS
SEPTEMBER, 1958 (Bhadra 10—Asvina 8, 1880 Saka)

During the month, observations of velocity and direction of upper winds were made at 55 stations in India. Out of these, at 43 stations all the observations were taken by means of pilot balloons and at 12 stations some observations were made by means of pilot balloons while the other observations by the radiowind method. Particulars of the stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the Table overleaf. All radiowind ascents have been indicated by means of an asterisk (*) against the scheduled hours.

Data from ascents made at the scheduled time or within two hours on either side of the scheduled times of regular observations have been used for averaging.

Data up to 9.0 km. a. m. s. l. are given under Table IV and data above 9.0 km. a. m. s. l. under Table V.

In Tables IV and V :

n—represents the number of observations ;

V—represents the mean wind speed in knots irrespective of direction ;

v—represents the resultant mean velocity in knots ;

D—represents the direction of the resultant mean wind in degrees East of North.

Mean and resultant winds are given in this publication for the following heights :

Surface, 0.15 km. a. g., 0.3, 0.6, 0.9, 1.5, 2.1, 3.0, 3.6, 4.5, 5.4, 6.0, 7.2, 9.0, 10.5, 12.0, 14.1, 16.2, 18.0, 21.0, 24.0, 27.0, 30.0, 33.0 and 36.0 km. a. m. s. l. Of these the levels 1.5, 3.0, 5.4, 7.2, 9.0, 12.0, 14.1 and 16.2 km. a. m. s. l. are considered as the best approximations to the standard pressure levels 850, 700, 500, 400, 300, 200, 150 and 100 mb. respectively.

PARTICULARS OF PILOT BALLOON AND RAWIN STATIONS IN INDIA

Station	Lat. N	Long. E	Height of Anemometer head a.m.s.l. in metres	Date of opening	Approximate times of flight (IST)		
Agartala	23°53'	91°15'	17	28th November, 1951	.	0530	1730 2330
Ahmedabad	23°04'	72°38'	61	19th May, 1928	.	0530	1730 2330
Amausi	26°45'	80°53'	132	20th November, 1950	.	0530	1730 2330
Ambala	30°23'	76°46'	279	1st April, 1941	.	0530	1730 2330
Amritsar	31°38'	74°52'	243	21st June, 1957	.	0530*	1730*
Anantapur	14°41'	77°37'	364	12th February, 1946	.	0530	1730 2330
Asansol	23°41'	86°59'	135	29th May, 1942	.	0530	1730 2330
Baghdogra	26°38'	88°19'	140	7th June, 1953	.	0530	1730 2330
Bairagarh	23°17'	77°21'	532	26th February, 1943	.	0530	1730 2330
Bamrauli	25°27'	81°44'	103	28th February, 1930	.	0530*	1130 1730* 2330
Bangalore	12°58'	77°35'	936	19th May, 1915	.	0530	1730 2330
Bareilly	28°22'	79°24'	180	12th January, 1943	.	0530	1730
Begumpet	17°27'	78°28'	543	1st September, 1929	.	0530	1730 2330
Bhagalpur	25°14'	86°57'	61	19th May, 1950	.	0530	1730
Bhubaneshwar	20°15'	85°50'	55	5th December, 1942	.	0530	1730 2330
Bhuj	23°15'	69°48'	111	14th September, 1937	.	0530	1730 2330
Bikaner	28°00'	73°18'	229	18th October, 1946	.	0530	1730 2330
Chikalthana	19°51'	75°24'	583	7th October, 1951	.	0530	1730 2330
Cochin†	09°56'	76°14'	3	16th March, 1942	.	0530	1730 2330
Darjeeling	27°03'	88°16'	2115	21st May, 1956	.	0530	1730
Dum Dum	22°39'	88°27'	13	14th May, 1921	.	0530*	1130 1730* 2330
Gadag	15°25'	75°38'	650	3rd May, 1943	.	0530	1730 2330
Gannavaram	16°32'	80°48'	34	8th April, 1942	.	0530	1730 2330
Gauhati	26°05'	91°43'	51	12th March, 1955	.	0530*	1130 1730* 2330
Gaya	26°45'	84°57'	119	19th March, 1937	.	0530	1730 2330
Gopalpur	19°16'	84°53'	24	15th February, 1946	.	0530	1730 2330
Gorakhpur	26°45'	83°22'	83	5th January, 1943	.	0530	1730
Gwalior	26°14'	78°15'	208	7th May, 1938	.	0530	1730 2330
Imphal	24°51'	93°58'	805	8th March, 1952	.	0530	1730 2330
Jabalpur	23°10'	79°57'	402	30th July, 1928	.	0530	1730 2330
Jagdalpur	19°05'	82°02'	562	25th March, 1948	.	0530	1730 2330
Jaipur	26°49'	75°48'	404	6th June, 1953	.	0530	1730
Jamshedpur	22°49'	86°11'	147	23rd July, 1942	.	0530	1730
Jharsuguda	21°55'	84°05'	240	1st May, 1944	.	0530	1730 2330
Jodhpur	26°18'	73°01'	229	15th October, 1934	.	0530*	1130 1730* 2330
Madras	13°00'	80°11'	29	8th April, 1926	.	0530*	1130 1730* 2330
Mangalore	12°52'	74°51'	40	4th June, 1928	.	0530	1730 2330
Minicoy	08°18'	73°00'	16	14th April, 1941	.	0530	1730 2330
Mohanbari	27°29'	95°01'	112	1st June, 1948	.	0530	1730 2330
Mussoorie	30°27'	78°05'	2050	3rd November, 1955	.	0530	1730
Nagpur	21°06'	79°03'	316	23rd April, 1943	.	0530*	1130 1730* 2330
Nanpara	27°50'	81°30'	142	23rd April, 1957	.	0530	1730
New Delhi	28°35'	77°12'	227	28th October, 1936	.	0530*	1130 1730* 2330
Poona	18°32'	73°51'	593	5th January, 1925	.	0530	1730 2330
Port Blair	11°40'	92°43'	93	29th October, 1945	.	0530*	1130 1730* 2330
Raipur	21°14'	81°39'	308	15th July, 1944	.	0530	1730 2330
Raxaul	26°59'	84°51'	83	28th October, 1957	.	0530	1730
Santa Cruz	19°07'	72°51'	14	14th May, 1933	.	0530*	1130 1730* 2330
Tezpur	26°37'	92°47'	79	12th August, 1932	.	0530	1730 2330
Tiruchirapalli	10°46'	78°43'	96	22nd June, 1936	.	0530	1730 2330
Trivandrum	08°29'	76°57'	73	8th December, 1928	.	0530*	1130 1730* 2330
Udaipur	24°35'	73°42'	587	24th June, 1947	.	0530	1730 2330
Vengurla	15°52'	73°38'	8	22nd November, 1941	.	0530	1730 2330
Veraval	20°54'	70°22'	17	13th October, 1941	.	0530*	1130 1730* 2330
Visakhapatnam	17°43'	83°14'	10	24th September, 1928	.	0530	1730 2330

*Radiowind ascents.

†Naval Meteorological office.

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

September, 1958 (Bhadra 10—Asvina 8, 1880 Saka)

Station	AGARTALA								AHMEDABAD																
	0530				1730				2330				0530				1730				2330				
Time in I. S. T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Ht. in Km.																									
Surface . . .	30	3.1	2.4	134	30	3.1	1.1	193	30	2.0	1.7	154	30	5.3	4.3	247	30	6.6	3.8	257	30	3.6	2.2	248	
0.15 a. g. . .	26	8.1	6.1	145	30	7.7	3.1	203	30	8.3	6.4	175	28	14.5	12.2	261	27	10.8	7.6	249	25	10.9	8.2	253	
0.3 a.m.s.l. . .	26	9.6	6.1	176	30	8.1	4.9	203	30	8.7	6.4	192	28	16.6	14.3	263	27	11.8	9.2	249	25	11.5	9.9	258	
0.6 . . .	26	10.1	5.7	178	30	9.8	6.8	199	30	8.9	6.1	198	24	16.4	14.6	273	27	14.5	12.1	261	25	15.8	14.0	263	
0.9 . . .	26	10.4	5.7	179	29	12.1	6.6	184	27	9.5	6.5	192	22	14.8	12.7	275	25	15.4	13.2	268	23	16.0	14.4	270	
1.5 . . .	26	11.4	5.5	163	28	12.4	8.1	175	26	9.2	6.5	180	20	12.5	8.6	257	23	16.2	13.5	273	20	13.5	11.0	276	
2.1 . . .	24	12.5	5.6	162	27	11.4	7.1	153	24	8.9	5.9	162	16	10.9	3.3	276	16	13.9	11.2	280	13	10.2	5.1	273	
3.0 . . .	18	11.3	6.2	129	23	10.5	4.6	135	23	10.5	6.5	140	10	9.9	4.8	267	13	9.2	6.1	306	8	6.7	2.5	242	
3.6 . . .	17	10.8	5.9	134	17	10.4	5.4	110	14	11.1	6.4	122	4	11.2	8.9	018	10	10.7	7.4	310	2	7.5	6.7	020	
4.5 . . .	16	10.6	5.9	140	13	8.9	7.3	106	9	9.1	3.0	127	3	9.3	7.8	356	8	10.6	6.1	320	2	5.5	5.1	090	
5.4 . . .	11	10.5	4.9	132	8	8.0	6.2	035	7	9.6	3.2	116	2	10.0	4.9	308	7	5.7	2.3	319					
6.0 . . .	10	11.4	4.4	125	7	7.1	5.4	102	7	7.9	2.8	119					7	6.0	1.4	289					
7.2 . . .	8	8.0	5.3	085	4	10.2	8.8	108	1	18.0	17.7	155					5	8.6	5.2	014					
9.0 . . .	3	10.0	5.8	055	1	10.0	10.0	090	2	13.5	13.5	153													
Station	AMAUSI								AMBALA																
Time in I. S. T.	0530				1730				2330				0530				1730				2330				
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Surface . . .	30	4.0	1.3	099	30	5.2	0.8	140	30	3.7	1.0	121	30	3.9	2.0	112	30	4.4	0.3	033	30	3.2	1.0	097	
0.15 a. g. . .	25	13.4	3.6	110	30	9.4	2.9	104	27	13.4	4.3	120	29	11.8	4.9	113	29	11.8	1.9	342	28	11.3	3.1	096	
0.3 a.m.s.l. . .	24	14.0	3.5	135	30	9.8	3.5	098	27	13.5	5.6	125	29	6.3	2.9	111	29	6.8	1.0	326	28	5.4	0.7	069	
0.6 . . .	23	17.6	4.1	120	30	11.7	3.9	110	27	16.1	6.4	132	29	13.5	5.7	122	29	12.6	1.7	081	28	12.5	4.1	117	
0.9 . . .	22	17.1	4.0	125	28	13.8	4.8	110	24	14.0	5.3	141	28	14.5	7.6	123	29	13.3	2.5	126	28	13.2	5.9	127	
1.5 . . .	18	16.1	4.5	117	26	15.7	6.1	117	24	12.8	5.3	140	26	16.8	9.7	114	28	16.0	6.4	133	28	15.2	8.7	125	
2.1 . . .	11	13.4	1.3	243	22	15.2	5.7	130	17	11.9	2.1	186	21	13.6	4.5	102	26	16.4	6.6	119	26	16.4	9.3	135	
3.0 . . .	6	7.0	2.8	284	16	13.4	3.3	130	9	8.5	1.4	136	18	12.2	4.0	.083	16	11.1	4.3	054	19	15.1	7.6	119	
3.6 . . .	3	10.0	4.1	223	13	11.8	5.6	120					4	8.7	1.4	058	12	13.6	3.7	043	4	12.0	10.0	127	
4.5 . . .	2	13.5	7.5	206	9	12.0	6.2	113					1	9.0	9.0	315	9	13.3	5.0	322	2	6.0	2.0	270	
5.4 . . .					6	12.0	3.5	085								6	13.0	6.8	315	2	6.0	3.5	274		
6.0 . . .					5	13.6	3.1	114								4	9.7	8.7	328	2	4.0	3.3	353		
7.2 . . .					1	11.0	11.0	190								3	25.0	19.7	325						
9.0 . . .					1	4.0	4.0	110								2	10.5	9.1	293						

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

September, 1958 (Bhadra 10—Asvina 8, 1880 Saka)

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

September 1958 (Bhadra 10—Asvina 8, 1880 Saka)

Station		BAIRAGARH								BAMRAULI															
Time in I. S. T.		1730				2330				0530*				1130				1730*				2330			
Ht. in Km.		n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .		30	6.6	4.2	266	30	5.3	4.0	243	30	3.7	0.4	061	30	5.6	1.2	107	30	5.2	0.9	031	30	4.2	1.2	107
0.15 a. g. .		26	11.3	7.9	270	27	14.7	9.2	261	28	12.6	1.5	152	30	9.4	2.6	136	30	11.0	1.3	065	30	12.7	3.2	141
0.3 a.m.s.l. .										28	12.6	1.4	150	30	9.8	2.7	138	30	11.0	1.4	069	30	13.6	3.1	139
0.6 . , .		26	10.4	7.1	272	27	13.7	8.7	254	28	14.1	1.7	136	30	10.3	2.7	136	30	10.6	2.1	100	30	15.2	2.9	147
0.9 . , .		25	13.1	9.1	273	27	15.7	10.5	272	28	12.4	2.1	100	26	11.4	3.7	128	30	11.3	2.2	119	30	14.9	3.8	154
1.5 . , .		24	14.2	10.3	277	25	14.4	10.5	272	28	12.9	3.7	102	14	13.3	4.6	164	30	13.8	4.3	151	25	12.5	3.0	199
2.1 . , .		19	13.7	9.3	285	15	9.9	6.7	277	28	13.7	5.8	115	7	14.1	8.1	150	30	13.2	4.8	144	18	11.1	1.9	189
3.0 . , .		15	11.1	7.2	292	12	6.6	2.7	290	27	13.7	6.5	120	1	13.0	13.0	280	30	13.3	4.9	120	10	8.6	0.8	065
3.6 . , .		12	9.2	4.6	303					27	12.7	6.1	117					30	13.6	4.9	124	2	8.0	5.3	(29)
4.5 . , .		9	9.6	3.2	003					27	13.8	7.8	124					30	12.4	3.5	125				
5.4 . , .		7	9.4	6.9	034					25	13.4	8.8	123					29	10.3	2.9	121				
6.0 . , .		5	9.4	4.7	075					25	12.9	8.6	140					29	10.0	2.1	097				
7.2 . , .		3	8.7	6.9	104					25	11.7	7.8	130					29	8.9	2.7	097				
9.0 . , .		2	9.0	9.0	120					18	11.7	8.8	102					27	7.6	2.9	113				
Station		BANGALORE								BAREILLY								BEGUMPET							
Time in I. S. T.		0530				1730				2330				0530				1730				0530			
Ht. in Km.		n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .		30	7.0	6.7	268	30	8.5	7.7	275	30	7.6	7.2	270	30	5.0	1.8	089	30	5.2	1.9	092	30	6.0	5.5	273
0.15 a. g. .		13	13.8	12.9	284	30	11.0	9.5	272	27	13.0	12.1	268	29	13.7	5.5	250	29	10.5	3.3	091	29	15.2	14.1	280
0.3 a.m.s.l. .														29	12.8	5.3	102	29	9.9	3.0	087				
0.6 . , .														28	20.3	14.8	110	29	13.3	4.5	107	29	9.7	9.1	277
0.9 . , .														27	21.0	10.0	123	27	14.5	5.4	119	28	17.9	16.5	294
1.5 . , .		12	18.9	18.4	293	29	12.1	11.0	277	26	16.2	15.7	278	23	19.3	8.8	113	23	17.9	7.9	138	27	16.3	14.5	299
2.1 . , .		11	8.9	8.3	283	27	11.8	10.8	281	22	11.9	10.4	282	15	18.7	14.8	101	22	19.6	11.0	128	25	13.4	12.2	302
3.0 . , .		11	7.6	6.2	298	21	10.4	9.2	289	17	10.8	8.4	302	7	12.7	5.0	097	18	18.2	10.8	128	19	9.1	7.7	300
3.6 . , .		8	8.6	7.9	278	17	9.1	7.0	313	12	10.4	8.5	303	5	11.0	2.9	243	15	17.0	9.5	138	13	8.0	5.9	290
4.5 . , .		4	11.3	7.2	258	12	8.8	3.8	310	5	8.6	7.1	302	3	7.7	6.6	298	12	15.7	7.0	150	5	8.4	8.2	276
5.4 . , .		2	6.5	6.0	244	10	6.4	0.9	350	5	9.4	7.5	298	3	9.0	8.4	317	9	15.0	1.5	017	3	7.0	6.4	299
6.0 . , .		1	7.0	7.0	270	6	8.0	1.5	332	4	6.7	5.3	250	2	7.5	7.5	338	8	14.1	4.2	312	3	4.7	3.8	305
7.2 . , .		1	3.0	3.0	270	5	13.2	3.8	108					1	5.0	5.0	335	5	12.0	3.0	241				
9.0 . , .						3	20.0	18.3	075								3	10.0	3.6	180					

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

September, 1958 (Bhadra 10—Asvina 8, 1880 Saka)

Station	BEGUMPET				BHAGALPUR				BHUBANESHWAR							
	1730		2330		0530		1730		0530		1730					
Time in I. S. T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Ht. in Km.																
Surface . .	30	6·0	5·0	296	30	4·7	3·6	277	30	4·7	2·3	110	30	5·1	1·8	106
0·15 a.g. . .	30	11·8	10·3	294	28	11·2	8·3	278	29	9·7	3·6	134	28	9·8	6·2	116
0·3 a.m.s.l. . .									29	10·6	4·0	138	28	10·4	6·5	117
0·6 „ . .	30	10·0	8·4	295	28	7·3	4·9	267	28	12·6	5·3	132	28	11·9	7·1	125
0·9 „ . .	30	13·1	12·0	289	28	13·3	10·9	285	28	13·6	6·8	116	27	12·3	7·1	123
1·5 „ . .	28	16·9	15·7	284	27	16·4	14·8	291	22	12·7	8·0	104	24	13·7	6·6	142
2·1 „ . .	28	18·8	18·0	288	25	16·0	14·5	290	22	13·3	7·8	108	22	14·7	7·8	129
3·0 „ . .	23	15·0	13·7	292	22	11·8	11·1	292	17	11·4	6·2	133	19	14·1	6·8	127
3·6 „ . .	20	12·5	11·3	299	7	10·0	7·6	292	14	11·7	9·3	123	17	13·2	6·1	105
4·5 „ . .	12	10·1	7·0	311	1	6·0	6·0	150	14	11·6	8·7	121	10	7·5	4·5	092
5·4 „ . .	5	8·0	5·0	298	1	8·0	8·0	175	13	11·5	9·9	120	9	7·5	3·5	118
6·0 „ . .	4	9·0	5·7	269	1	5·0	5·0	200	8	11·1	7·4	122	9	9·5	4·1	126
7·2 „ . .	2	6·0	5·1	072	1	7·0	7·0	180	7	11·6	6·4	106	4	7·3	5·7	077
9·0 „ . .									2	14·5	12·9	081	1	14·0	14·0	090
Station	BHUBANESHWAR				BHUJ				BIKANER							
Time in I. S. T.	2330		0530		1730		2330		0530		1730					
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	3·7	2·1	244	30	6·0	5·5	242	30	10·0	8·9	247	30	7·7	7·2	240
0·15 a.g. . .	29	10·6	5·9	221	30	17·0	15·8	258	28	16·5	15·2	258	27	14·7	14·0	255
0·3 a.m.s.l. . .	29	11·5	6·5	229	30	18·4	16·7	259	28	17·1	15·8	257	27	15·0	14·1	257
0·6 „ . .	29	12·0	6·3	235	30	20·8	18·7	266	28	19·0	17·1	265	27	17·1	14·8	265
0·9 „ . .	28	11·6	5·8	245	25	16·8	14·2	260	27	18·4	16·1	273	24	14·6	12·3	253
1·5 „ . .	25	10·8	4·4	272	23	14·0	8·9	263	26	14·1	10·3	295	21	12·8	6·1	284
2·1 „ . .	21	9·5	5·3	280	20	10·2	4·5	337	20	11·9	7·3	329	18	9·4	3·9	345
3·0 „ . .	13	5·8	0·6	007	18	13·1	7·2	021	17	11·5	6·0	347	16	10·5	6·0	357
3·6 „ . .	9	6·2	2·8	069	10	11·0	4·3	348	16	10·0	4·8	319	10	11·4	7·4	335
4·5 „ . .	5	8·6	5·7	083	6	9·5	3·5	331	13	10·8	6·9	348	5	7·0	1·5	006
5·4 „ . .	2	7·0	6·1	140	4	12·3	8·1	026	13	10·3	5·7	331	1	9·0	9·0	085
6·0 „ . .	2	8·0	7·2	119	2	9·5	8·5	289	12	11·4	7·0	339	1	15·0	15·0	100
7·2 „ . .	1	10·0	10·0	110					8	12·3	7·0	327	1	17·0	17·0	090
9·0 „ . .									8	11·7	2·2	003				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

September, 1958 (Bhadra 10—Asvina 8, 1880 Saka)

* Station	BIKANER				CHIKALTHANA								COCHIN											
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	5.2	1.6	153	30	6.5	5.8	267	30	10.6	8.7	278	30	8.2	7.5	268	30	1.3	0.7	012	30	5.4	5.0	304
0.15 a.g. . .	28	13.8	3.9	162	29	14.7	13.4	275	29	15.6	13.3	277	30	16.3	14.7	281	27	6.4	3.8	360	30	9.3	9.0	304
0.3 a.m.s.l. . .	28	10.5	3.1	143													27	9.3	7.8	324	30	12.0	11.9	305
0.6 „ „ .	27	15.3	4.4	189													27	13.9	12.9	316	30	15.9	15.9	308
0.9 „ „ .	27	14.1	7.4	200	29	18.5	15.9	281	29	16.8	15.0	285	30	19.1	17.0	286	27	16.1	15.4	316	30	16.4	16.0	308
1.5 „ „ .	27	10.4	2.9	006	24	20.6	18.3	293	26	18.7	16.4	286	28	20.6	18.5	292	24	17.0	16.6	304	29	15.7	15.3	311
2.1 „ „ .	25	11.2	5.5	016	20	13.4	11.0	292	21	15.0	13.7	283	25	15.9	13.4	278	19	14.7	14.2	299	29	13.4	12.3	306
3.0 „ „ .	19	11.6	5.9	001	18	10.3	7.1	285	15	11.6	10.3	281	22	9.5	6.8	280	17	13.6	12.4	293	22	11.7	9.4	297
3.6 „ „ .	11	12.1	6.3	019	11	10.8	6.5	273	12	9.4	8.3	282	14	8.7	6.7	274	13	11.8	8.8	285	17	12.8	10.7	297
4.5 „ „ .	1	9.0	9.0	080	4	9.7	5.7	262	7	7.1	3.5	289	2	8.0	6.9	217	12	10.3	6.6	282	9	10.2	8.5	269
5.4 „ „ .					1	13.0	13.0	315	4	7.0	1.4	329					10	7.5	4.8	301	3	4.6	4.3	085
6.0 „ „ .					1	13.0	13.0	315	4	6.5	3.1	059					8	8.0	2.5	004	2	9.0	7.2	098
7.2 „ „ .									1	10.0	10.0	030					5	9.0	5.0	050	2	7.0	4.9	124
9.0 „ „ .																	2	22.0	20.5	074				
Station	COCHIN				DARJEELING								DUM DUM											
Time in I.S.T.	2330				0530				1730				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	1.3	1.2	343	30	1.0	0.4	053	30	1.8	0.2	017	30	4.4	2.6	120	30	6.8	4.6	128	30	4.4	2.8	150
0.15 a.g. . .	29	7.1	6.4	318	12	4.2	3.3	054	3	13.0	11.1	085	30	11.4	5.7	137	28	10.0	6.5	131	30	10.1	6.9	158
0.3 a.m.s.l. . .	29	9.7	9.1	315									30	13.1	6.6	139	28	10.4	6.5	135	30	11.3	8.0	156
0.6 „ „ .	29	14.0	13.5	311									30	14.0	7.2	144	27	11.5	7.0	138	30	12.8	8.7	158
0.9 „ „ .	29	16.5	16.0	309									30	15.1	8.4	145	24	12.8	8.4	138	30	13.7	8.5	154
1.5 „ „ .	28	17.4	17.2	302									30	15.3	8.9	142	17	12.3	7.9	130	30	14.4	8.6	153
2.1 „ „ .	25	16.8	16.3	295									30	15.3	9.3	142	8	12.9	8.6	118	30	14.4	7.8	145
3.0 „ „ .	11	15.0	13.5	294	12	9.1	8.8	098	3	11.3	11.3	092	30	14.7	7.9	141	4	9.0	7.8	129	30	14.8	6.2	139
3.6 „ „ .	5	10.4	5.5	125	12	10.7	10.0	099	2	22.5	22.4	099	..	..	..	..	2	9.5	9.2	111	..	..	..	..
4.5 „ „ .	2	10.0	3.8	032	11	10.7	8.5	097	1	14.0	14.0	120	30	15.4	7.7	123					30	15.1	6.2	132
5.4 „ „ .	1	2.0	2.0	045	9	11.3	7.9	103	1	13.0	13.0	115	30	13.7	6.9	134					30	15.5	5.3	115
6.0 „ „ .	1	4.0	4.0	055	7	7.3	3.4	162					30	14.6	7.0	130					30	14.7	5.2	117
7.2 „ „ .					7	9.3	6.1	115					30	14.2	8.3	110					30	14.2	7.3	115
9.0 „ „ .					5	11.4	9.8	070					25	12.9	9.2	093					29	16.0	11.8	104

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

September, 1958 (Bhadra 10—Asvina 8, 1880 Saka)

Station	DUM DUM				GADAG								GANNAVARAM											
	2330				0530				1730				2330				0530				1730			
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Ht. in Km.																								
Surface . .	30	3·5	1·9	133	30	8·3	7·6	258	30	10·1	8·1	255	30	9·0	8·6	260	30	3·4	3·1	266	30	5·8	4·8	292
0·15 a.g. . .	29	9·8	6·8	169	30	16·6	15·8	265	29	19·3	16·9	259	29	18·8	18·4	257	27	10·2	9·4	264	26	9·1	8·2	287
0·3 a.m.s.l. . .	29	12·2	9·2	176													27	11·7	10·8	269	26	10·1	9·2	288
0·6 „ . .	29	12·6	9·3	176													27	13·7	12·9	280	26	12·3	11·5	290
0·9 „ . .	29	12·6	8·5	171	30	18·3	16·8	276	29	19·8	18·1	262	29	21·6	21·0	269	26	13·7	13·1	291	25	14·9	13·8	290
1·5 „ . .	27	12·4	5·8	170	27	17·7	15·9	292	23	20·5	19·2	275	29	19·2	18·2	282	23	13·7	12·8	302	24	16·6	15·6	290
2·1 „ . .	23	9·5	5·3	152	22	11·1	9·1	281	21	16·1	14·1	292	26	13·1	11·4	282	19	12·4	11·1	306	23	17·3	16·7	290
3·0 „ . .	16	9·3	5·0	139	18	7·3	5·9	292	11	12·5	11·5	302	19	8·9	6·5	299	10	10·4	9·1	320	20	15·6	14·7	287
3·6 „ . .	4	3·3	2·3	128	13	7·8	4·8	315	6	10·2	9·5	309	14	12·0	9·7	310	6	7·0	1·3	305	18	11·1	9·8	279
4·5 „ . .	1	9·0	9·0	100	3	9·7	9·2	321	5	11·0	10·0	294	10	15·3	12·9	307	4	6·7	3·5	027	14	9·6	7·9	277
5·4 „ . .									4	14·0	13·9	291	3	8·7	3·8	020	3	3·3	2·8	086	10	8·4	5·1	315
6·0 „ . .									2	16·0	15·7	295	1	9·0	9·0	360	1	2·0	2·0	110	9	7·5	3·6	343
7·2 „ . .									2	13·5	11·0	310					1	4·0	4·0	125	4	7·0	5·6	347
9·0 „ . .																				1	15·0	15·0	085	
Station	GANNAVARAM				GAUHATI								GAYA											
Time in I.S.T.	2330				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	3·0	1·8	256	29	1·1	0·6	090	30	4·3	2·0	359	30	1·3	0·4	260	30	2·2	0·6	207	30	3·4	1·0	086
0·15 a.g. . .	27	7·7	5·0	266	29	4·9	2·0	090	28	7·1	4·8	009	30	6·5	2·7	219	28	6·0	1·9	236	28	11·2	4·5	160
0·3 a.m.s.l. . .	27	8·3	6·0	273	29	5·5	2·3	100	28	7·4	4·1	038	30	6·5	2·4	229	28	6·3	2·5	260	28	11·8	4·7	170
0·6 „ . .	27	10·4	8·8	286	29	6·7	1·3	092	27	7·7	3·5	053	30	7·0	2·3	258	28	7·0	3·3	268	27	14·8	3·0	190
0·9 „ . .	26	11·7	10·7	291	29	8·6	1·4	135	27	9·3	3·4	102	30	8·2	3·1	238	26	8·2	2·8	238	26	14·4	2·9	147
1·5 „ . .	26	14·5	13·6	295	29	11·0	2·1	180	21	10·2	6·0	124	30	11·2	5·4	210	20	9·7	3·7	279	24	14·4	4·9	127
2·1 „ . .	21	14·8	14·0	297	29	12·9	3·0	179	19	9·9	6·7	121	30	11·7	5·1	217	16	9·9	4·7	173	20	13·3	4·2	122
3·0 „ . .	14	12·0	11·1	292	29	11·8	4·2	131	13	11·8	8·7	110	30	13·2	2·4	191	10	12·0	5·5	166	15	11·5	6·1	142
3·6 „ . .	8	8·1	6·6	286	29	11·2	3·3	142	5	11·4	9·6	097	30	14·2	3·3	166	1	27·0	27·0	220	12	11·7	6·4	164
4·5 „ . .	5	9·0	6·2	270	28	11·1	34·2	123	1	4·0	4·0	195	30	14·5	3·5	194	1	5·0	5·0	190	8	11·4	8·9	116
5·4 „ . .	1	6·0	6·0	010	28	10·9	3·5	133					30	13·3	3·3	157	1	2·0	2·0	130	4	14·0	11·8	128
6·0 „ . .	1	6·0	6·0	010	28	11·4	3·9	127					30	11·2	1·5	152	1	5·0	5·0	030	4	12·5	10·4	125
7·2 „ . .					28	10·4	0·1	357					30	11·8	2·9	060					2	12·0	9·7	079
9·0 „ . .					14	14·1	1·1	025					16	10·4	7·0	041					1	13·0	13·0	105

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

September, 1958 (Bhadra 10—Asvina 8, 1880 Saka)

Station	GAYA				GOPALPUR				GORAKHPUR							
	1730		2330		0530		1730		2330		0530					
Time in I. S. T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Ht. in Km.																
Surface . .	30	2.9	1.6	114	30	3.3	1.3	120	30	1.4	0.9	236	30	4.4	3.2	198
0.15 a.g. . .	24	8.0	4.3	116	29	11.5	3.4	150	29	8.3	4.3	286	28	11.2	6.5	203
0.3 a.m.s.l. . .	24	8.4	4.5	114	29	11.8	4.3	140	29	8.7	5.2	273	28	10.8	6.1	207
0.6 . . .	24	10.8	5.0	117	29	13.4	5.2	153	29	10.4	6.7	277	28	9.8	4.0	222
0.9 . . .	24	12.5	5.9	125	28	13.9	5.1	153	29	11.9	7.6	297	28	10.1	3.5	248
1.5 . . .	24	15.7	8.1	135	28	13.9	4.7	147	29	11.5	7.3	306	25	11.1	7.0	288
2.1 . . .	20	13.1	5.7	145	26	13.4	6.7	140	28	10.2	6.9	281	23	10.5	6.6	302
3.0 . . .	16	10.6	3.5	152	11	8.5	4.4	164	21	10.1	5.5	264	13	10.5	5.1	281
3.6 . . .	12	10.5	4.7	131	6	7.7	5.3	057	17	9.5	3.6	264	13	11.4	5.2	278
4.5 . . .	8	12.5	5.6	118					12	9.7	2.8	236	9	10.0	4.6	228
5.4 . . .	6	10.8	9.4	118					8	8.0	2.2	158	6	12.5	4.4	220
6.0 . . .	3	12.7	12.3	130					5	7.2	2.5	144	5	10.6	2.8	235
7.2 . . .	1	17.0	17.0	115					3	11.0	6.7	111	2	9.0	6.5	274
9.0 . . .									1	20.0	20.0	075	1	18.0	18.0	080
Station	GORAKHPUR				GWALIOR				IMPHAL							
Time in I.S.T.	1730		0530		1730		2330		0530		1730					
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	2.8	1.2	127	30	3.8	0.9	276	30	5.0	1.0	249	30	3.9	1.2	224
0.15 a.g. . .	30	9.5	2.8	129	29	14.2	2.9	245	27	12.0	1.0	180	29	13.5	3.9	189
0.3 a.m.s. l. .	30	10.3	3.3	116	29	11.0	1.7	241	27	10.1	1.2	220	29	10.8	3.1	189
0.6 . . .	30	11.7	4.8	109	26	19.3	5.8	261	27	13.5	1.8	185	29	16.2	4.0	183
0.9 . . .	29	12.5	3.1	111	23	18.2	6.6	285	27	13.7	1.8	184	28	17.5	4.1	175
1.5 . . .	29	15.0	5.9	120	21	15.0	2.6	298	24	14.7	3.6	195	28	15.7	4.6	143
2.1 . . .	28	16.8	6.7	123	13	12.0	1.5	235	16	15.7	4.1	230	25	13.4	2.6	159
3.0 . . .	21	16.2	9.3	115	7	9.3	5.5	192	11	11.8	7.8	273	18	13.3	1.9	152
3.6 . . .	19	17.6	9.1	115	5	8.8	6.0	168	8	10.5	5.0	271	9	10.8	3.3	258
4.5 . . .	13	14.4	8.1	109	3	8.7	0.8	155	7	12.7	4.7	237	3	6.3	3.6	088
5.4 . . .	12	15.3	9.3	105					6	10.7	4.3	210	1	3.0	3.0	075
6.0 . . .	11	15.7	7.2	131					5	10.2	2.6	252				4
7.2 . . .	8	9.7	6.7	089					5	11.4	1.7	151				3
9.0 . . .	5	8.6	3.1	100					4	9.5	3.3	223				5

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9.0 Km. above mean sea level

September, 1958 (Bhadra 10—Asvina 8, 1880 Saka)

Station	IMPHAL				JABALPUR								JAGDALPUR											
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	30	1.0	0.4	198	30	2.7	1.9	226	30	3.5	1.8	234	30	3.2	1.9	210	30	11.3	8.6	221	30	2.9	1.3	253
0.15 a. g. .	29	2.6	0.9	097	29	10.8	5.5	250	29	9.4	3.8	231	27	11.2	6.4	239	27	8.1	6.7	247	24	9.7	6.2	258
0.3 a.m.s.l. .																								
0.6 „ .					29	12.0	5.9	257	29	10.1	4.2	252	27	12.3	6.4	244	27	5.8	4.9	232	24	6.8	3.7	255
0.9 „ .	29	2.2	0.8	094	28	16.4	8.1	276	29	11.3	5.0	259	27	14.0	6.3	257	27	10.3	8.4	271	24	10.5	8.0	266
1.5 „ .	29	5.8	1.8	196	21	16.4	9.3	284	25	12.5	7.2	280	24	13.5	5.5	270	19	15.3	13.6	306	17	12.4	9.8	286
2.1 „ .	25	9.9	6.0	171	15	12.7	5.8	269	19	11.2	5.1	267	19	11.5	5.0	254	12	11.8	10.7	317	13	12.6	9.8	298
3.0 „ .	19	10.7	6.1	156	9	10.5	3.5	176	14	9.7	4.6	267	13	8.2	2.8	253	5	8.6	5.9	312	10	9.3	6.2	310
3.6 „ .	10	8.3	6.1	143	7	10.1	5.8	139	10	6.7	2.2	289	7	7.3	1.6	155	3	7.7	3.6	396	7	11.1	6.0	309
4.5 „ .	7	6.0	3.5	168	4	5.5	4.8	171	6	7.5	1.7	239					1	7.0	7.0	060	3	13.7	13.4	286
5.4 „ .	4	9.3	1.9	041	3	5.3	3.3	178	3	10.0	5.2	297									2	11.0	7.5	267
6.0 „ .	4	10.3	1.1	319	3	7.3	5.4	129	3	10.0	6.1	299									1	15.0	15.0	245
7.2 „ .	1	4.0	4.0	120					2	6.5	0.6	204												
9.0 „ .									1	8.0	8.0	040												
Station	JAGDALPUR				JAIPUR								JAMSHEDPUR				JHARSUGUDA							
Time in I. S. T.	2330				0530				1730				0530				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	30	1.5	1.1	228	30	4.2	0.7	007	30	6.4	0.7	359	30	3.2	1.4	085	30	3.9	2.0	093	30	3.6	0.2	276
0.15 a. g. .	25	8.8	6.9	255	30	13.2	1.3	311	29	11.7	0.7	009	27	6.9	1.7	123	27	7.9	5.3	105	28	8.9	0.5	173
0.3 a.m.s.l. .													27	7.0	2.0	138	27	8.0	5.5	110	28	7.2	0.3	211
0.6 „ .	25	5.4	4.1	242	30	15.1	1.4	319	29	12.6	0.6	358	27	10.2	1.9	187	28	10.6	6.4	121	26	10.7	3.7	284
0.9 „ .	25	11.3	8.6	274	23	17.1	2.7	278	29	14.0	0.8	035	24	10.4	1.9	226	27	12.0	6.7	125	22	10.8	5.9	295
1.5 „ .	23	14.0	11.2	294	21	14.7	0.4	303	26	13.5	1.7	240	19	9.3	1.6	357	22	11.2	3.6	133	17	8.2	2.1	048
2.1 „ .	20	13.0	11.3	301	12	7.7	3.5	342	17	10.7	4.2	228	16	7.3	1.3	060	20	11.1	1.4	151	11	7.5	1.9	308
3.0 „ .	12	9.2	7.1	303	7	6.0	2.2	070	13	7.0	4.5	314	16	8.2	0.9	145	15	9.2	3.2	085	7	6.9	0.7	350
3.6 „ .	7	10.4	6.7	307	2	3.5	2.0	338	8	8.5	2.4	273	11	8.8	2.1	165	13	8.3	3.9	092	3	10.0	3.3	237
4.5 „ .	7	11.6	7.0	304	1	8.0	8.0	010	7	11.3	5.1	241	9	8.1	2.7	144	10	5.7	2.2	071				
5.4 „ .	4	12.0	5.1	271					2	11.5	9.7	173	3	9.0	5.3	110	8	6.9	4.5	043				
6.0 „ .	3	8.7	3.9	030					1	15.0	15.0	180	2	9.5	8.1	147	6	8.5	7.8	048				
7.2 „ .	1	6.0	6.0	145													3	12.7	11.2	073				
9.0 „ .	1	19.0	19.0	105																				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

September, 1958 (Bhadra 10—Asvina 8, 1880 Saka)

Station	MANGALORE				MINICOY								MOHANBARI											
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	3.9	1.5	314	30	5.5	5.1	294	30	5.2	4.8	299	30	6.0	5.4	303	30	1.2	0.6	067	30	1.1	0.7	048
0.15 a.g. . .	29	8.3	6.5	303	29	11.1	10.2	297	30	13.5	12.5	297	30	11.7	10.7	299	21	6.3	3.3	065	28	6.0	2.1	048
0.3 a.m.s.l. . .	29	9.8	8.3	304	29	11.5	10.6	297	30	13.2	12.3	298	30	12.2	11.3	300	21	6.6	3.2	066	28	5.3	2.2	050
0.6 . . .	29	12.8	11.4	304	29	14.1	13.0	300	30	14.3	13.4	300	30	14.2	13.3	303	21	7.2	1.2	352	28	5.0	1.2	090
0.9 . . .	28	14.3	13.0	305	28	15.6	14.5	301	28	16.2	15.3	300	29	15.0	14.1	304	20	6.9	1.3	309	27	5.4	0.7	157
1.5 . . .	27	14.0	12.9	295	27	14.6	13.9	297	24	16.4	15.9	298	26	13.9	13.3	300	18	7.6	1.1	245	26	6.7	3.7	206
2.1 . . .	22	11.3	10.7	291	24	13.4	12.7	292	19	15.4	14.5	298	22	12.5	12.1	292	15	7.6	3.4	231	26	7.6	5.3	207
3.0 . . .	20	11.1	7.4	293	12	12.3	11.7	286	13	14.1	12.7	282	14	11.9	11.1	290	12	6.4	3.7	221	22	7.2	4.5	205
3.6 . . .	16	9.7	6.3	307	3	12.7	12.4	296	10	14.5	13.0	283	7	6.9	6.7	297	10	5.7	2.2	175	13	7.1	3.2	153
4.5 . . .	9	5.8	3.1	026					6	15.7	14.6	278					9	5.7	2.8	136	6	7.7	1.3	138
5.4 . . .									2	6.5	4.5	001					9	6.7	1.6	181	3	13.3	2.3	180
6.0 . . .																8	8.5	3.4	081	2	19.5	9.6	078	
7.2 . . .																5	4.6	3.1	346					
9.0 . . .																1	8.0	8.0	360					
Station	MOHANBARI				MUSSOORIE								NAGPUR											
Time in I.S.T.	2330				0530				1730				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	0.5	0.2	167	30	3.1	0.5	151	30	3.8	1.7	174	29	2.8	2.3	274	30	7.0	5.9	273	29	5.9	4.2	266
0.15 a.g. . .	27	5.8	1.2	029	6	5.2	2.0	323	2	12.5	12.1	084	29	12.5	9.4	286	30	10.2	8.4	275	29	14.1	10.5	273
0.3 a.m.s.l. . .	27	5.2	0.7	029																				
0.6 . . .	27	5.5	1.4	204									29	11.6	9.0	289	30	9.4	6.9	283	29	11.4	9.0	274
0.9 . . .	27	7.0	3.1	196									29	13.2	10.3	292	28	7.8	5.9	291	29	9.1	7.9	278
1.5 . . .	25	6.4	4.1	213									29	13.1	10.0	289	18	10.8	6.8	285	29	12.7	10.9	289
2.1 . . .	22	5.1	4.1	210	6	7.2	5.3	354	2	16.0	14.8	031	29	11.6	8.7	280	9	13.1	8.8	287	29	12.3	10.1	285
3.0 . . .	20	6.2	4.0	225	6	6.2	3.0	126	2	15.5	10.4	132	29	8.9	6.4	289	5	9.4	7.3	280	29	11.6	8.9	285
3.6 . . .	15	7.4	5.6	198	6	10.5	3.5	129	1	19.0	19.0	130	29	8.6	5.1	296	1	1.0	1.0	185	29	8.5	5.	291
4.5 . . .	9	8.2	4.4	166	3	2.7	2.5	084	1	12.0	12.0	130	28	7.8	2.8	312	1	3.0	3.0	015	28	8.6	2.0	317
5.4 . . .	8	8.5	4.3	187	3	5.7	5.0	147					28	9.0	0.9	017	1	6.0	6.0	325	27	9.6	2.	032
6.0 . . .	6	9.8	3.7	220	2	3.0	2.9	177					24	8.3	2.3	087					25	8.8	3.	057
7.2 . . .													22	9.0	4.2	082					19	7.9	1.	087
9.0 . . .	3	8.7	0.4	073									17	10.3	7.6	085					8	9.1	7	068

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

September, 1953 (Bhadra 10—Asvina 8, 1880 Saka)

Station	NAGPUR				NANPARA				NEW DELHI															
Time in I.S.T.	2330				0530				1730				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	4.7	3.2	275	30	2.6	1.7	098	30	3.1	2.4	084	30	5.2	0.4	073	30	7.6	1.0	159	30	5.8	1.1	096
0.15 a.g. . .	28	10.5	6.7	282	27	13.0	6.6	121	29	9.7	2.8	139	28	13.7	2.5	132	29	12.8	3.4	119	30	12.9	3.5	099
0.3 a.m.s.l. . .					27	13.7	7.1	119	29	9.7	2.9	141	28	12.5	2.4	131	29	12.4	3.1	113	30	12.9	3.6	099
0.6 , , .	28	11.7	8.1	291	25	16.4	10.0	120	29	12.5	5.6	135	28	14.9	2.5	142	29	14.1	4.3	116	30	13.8	4.5	101
0.9 , , .	28	13.0	9.5	293	25	16.5	10.1	120	29	13.8	6.5	129	28	16.3	3.2	128	29	15.7	6.2	110	30	14.4	4.8	106
1.5 , , .	26	12.3	9.3	291	22	16.3	8.3	116	28	17.8	9.0	123	28	16.5	6.5	102	24	19.3	9.4	104	30	15.3	5.8	124
2.1 , , .	20	11.3	8.8	290	18	18.0	8.5	116	25	20.1	11.8	122	28	16.1	7.4	106	20	19.7	10.4	113	30	16.7	5.2	124
3.0 , , .	16	7.7	5.6	315	9	11.5	7.2	115	19	19.7	13.2	119	28	14.6	7.8	123	11	10.8	4.0	142	30	15.4	5.0	125
3.6 , , .	12	6.3	2.7	336	4	9.7	4.3	128	14	19.1	13.5	124	28	12.5	7.9	136	6	13.1	9.5	128	30	14.8	4.7	130
4.5 , , .	2	6.0	6.0	071	4	10.7	2.2	135	7	13.5	6.2	117	28	12.6	4.6	138	5	8.5	2.2	190	30	14.6	4.4	202
5.4 , , .	1	2.0	2.0	065	4	10.2	0.9	205	6	11.5	0.7	024	28	13.2	4.0	152	4	12.2	2.6	275	29	14.1	4.8	196
6.0 , , .					3	6.0	4.7	317	2	11.5	5.9	267	28	13.6	4.1	156	4	13.5	5.7	267	29	14.3	4.2	190
7.2 , , .					2	5.0	1.0	192	1	15.0	15.0	205	28	12.8	5.1	176	3	7.3	2.8	264	29	14.9	6.7	225
9.0 , , .													27	11.2	5.2	277	3	8.3	2.4	268	27	11.8	5.6	251
Station	NEW DELHI				POONA								PORT BLAIR											
Time in I.S.T.	2330				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	4.0	0.8	132	30	1.8	1.6	247	30	6.8	6.2	265	30	2.3	2.2	257	30	3.3	3.2	232	30	7.4	6.9	237
0.15 a.g. . .	29	11.9	3.1	134	30	10.3	9.9	257	30	15.7	14.9	268	30	11.0	10.6	260	30	13.9	13.5	238	27	12.0	11.0	233
0.3 a.m.s.l. . .	30	8.8	1.7	128													30	14.0	13.5	239	27	12.2	11.4	234
0.6 , , .	29	14.9	5.1	142	30	4.8	4.6	250	30	9.9	9.5	271	30	5.5	5.2	254	30	16.9	16.2	247	27	13.2	12.9	241
0.9 , , .	28	16.4	6.6	140	30	12.6	12.0	265	30	16.9	15.9	270	30	13.5	12.8	269	30	17.5	16.9	252	27	13.6	13.3	244
1.5 , , .	28	15.4	5.7	126	22	15.9	14.7	277	23	18.0	17.7	268	23	16.5	15.3	279	30	14.9	14.5	251	25	13.1	12.5	246
2.1 , , .	27	14.8	7.4	117	19	10.1	8.1	283	18	14.1	13.9	271	20	12.3	10.1	282	30	12.5	11.6	256	19	13.1	12.2	249
3.0 , , .	21	11.7	4.6	117	14	8.1	7.0	285	14	9.4	8.7	264	15	7.6	6.1	267	30	13.2	11.9	260	11	14.9	13.2	250
3.6 , , .	6	6.7	3.5	329	13	9.8	6.7	290	14	10.3	7.4	260	13	8.6	6.3	255	30	13.6	11.2	263	10	13.8	12.2	259
4.5 , , .	1	6.0	6.0	300	4	8.5	7.7	273	10	10.3	7.9	276	3	8.0	4.8	262	30	12.1	8.1	258	3	10.7	7.5	245
5.4 , , .	1	12.0	12.0	315	1	3.0	3.0	220	9	7.6	4.1	274	3	6.7	1.1	097	30	10.1	3.5	255	1	5.0	5.0	110
6.0 , , .	1	13.0	13.0	335	1	3.0	3.0	010	9	6.9	0.7	032	3	4.0	3.1	059	30	10.5	1.5	222	1	6.0	6.0	105
7.2 , , .									7	7.1	5.7	061	2	13.5	12.9	050	30	9.9	5.6	103	1	11.0	11.0	070
9.0 , , .									4	23.5	22.5	077	1	25.0	25.0	075	22	19.9	18.4	095	1	21.0	21.0	100

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

September, 1958 (Bhadra 10—Asvina 8, 1880 Saka)

Station	PORT BLAIR				RAIPUR				RAXAUL							
	1730*		2330		0530		1730		2330		0530					
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Ht. in Km.																
Surface . .	30	5.0	4.7	238	30	3.7	3.6	229	30	3.3	1.7	227	30	4.0	2.7	251
0.15 a.g. . .	30	14.6	14.1	247	30	8.2	7.7	232	23	10.9	7.5	269	24	10.0	7.1	259
0.3 a.m.s.l. . .	30	14.8	14.4	246	30	8.7	8.3	233					23	12.2	7.9	247
0.6 „ . .	30	16.2	15.7	250	30	9.6	9.3	241	23	13.0	8.6	281	24	11.2	8.1	261
0.9 „ . .	30	17.4	17.0	254	30	9.8	9.3	250	22	14.5	9.6	285	24	11.5	8.8	265
1.5 „ . .	30	16.2	15.6	258	29	8.4	7.9	251	21	12.2	9.5	298	24	13.2	9.8	277
2.1 „ . .	30	13.7	12.6	260	28	7.1	6.6	254	16	10.7	6.2	306	20	13.0	9.2	291
3.0 „ . .	30	12.0	10.2	262	26	6.6	5.5	245	11	7.4	5.1	325	11	10.4	7.8	297
3.6 „ . .	30	12.4	9.4	255	21	7.0	5.0	234	7	5.1	3.1	321	8	8.6	5.2	271
4.5 „ . .	30	13.7	8.5	246	9	8.3	3.6	163	1	4.0	4.0	035	4	5.3	1.2	265
5.4 „ . .	29	12.0	3.3	242	8	8.4	3.7	151	1	7.0	7.0	065	2	8.0	6.1	256
6.0 „ . .	29	12.9	0.9	205	5	7.6	5.1	100					1	8.0	8.0	280
7.2 „ . .	29	11.4	4.8	110									1	5.0	5.0	020
9.0 „ . .	19	19.8	17.8	087												5 6.0 3.2 105

Station	RAXAUL				SANTA CRUZ				TEZPUR							
	1730		0530*		1130		1730*		2330		0530					
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Ht. in Km.																
Surface . .	30	2.7	1.3	130	30	6.1	5.0	258	30	9.2	8.2	255	30	9.0	7.1	264
0.15 a.g. . .	29	7.5	4.0	116	29	12.8	9.6	270	29	13.1	11.7	255	30	13.8	11.7	273
0.3 a.m.s.l. . .	29	7.4	4.1	123	30	12.3	10.1	267	29	15.2	13.8	255	30	13.8	11.9	275
0.6 „ . .	29	8.5	4.3	117	30	13.1	11.2	265	29	15.9	14.3	258	30	14.4	12.8	270
0.9 „ . .	29	10.2	4.1	118	30	12.7	11.2	263	22	14.5	12.7	263	30	14.8	14.0	290
1.5 „ . .	27	13.7	5.9	119	30	14.1	12.3	262	8	12.3	10.6	283	30	15.0	13.3	270
2.1 „ . .	27	16.0	8.1	114	30	13.1	11.8	264	6	7.8	6.5	301	30	14.7	13.0	264
3.0 „ . .	19	13.6	9.6	110	30	12.3	9.8	274	2	7.0	6.8	230	30	13.0	11.5	270
3.6 „ . .	17	13.3	6.7	112	30	11.4	8.3	277	1	7.0	7.0	245	30	11.4	9.6	275
4.5 „ . .	12	11.3	5.8	122	30	11.0	6.4	289	1	12.0	12.0	260	30	11.2	6.9	274
5.4 „ . .	8	12.1	9.3	108	30	9.8	4.9	295	1	6.0	6.0	260	30	10.7	6.1	270
6.0 „ . .	4	6.0	2.2	118	29	9.3	4.8	289					30	10.1	4.1	258
7.2 „ . .	2	5.5	5.5	207	29	8.8	0.8	004					29	8.4	2.6	021
9.0 „ . .	2	6.0	5.2	181	20	10.4	6.0	068					22	12.3	8.1	084

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

September 1958 (Bhadra 10—Asvina 3, 1880 Saka)

Station	TEZPUR								TIRUCHIRAPALLI								TRIVANDRUM							
	1730				2330				0530				1730				2330				0530*			
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Ht. in Km.																								
Surface . . .	30	1·0	0·3	187	30	1·0	0·4	139	30	11·0	10·7	274	30	9·9	7·4	289	30	9·3	7·3	258	30	4·4	4·1	332
0·15 a.g. . .	30	7·1	1·3	217	29	8·3	2·3	212	30	19·0	18·9	276	29	11·1	8·3	289	26	14·4	12·0	251	30	8·1	7·6	340
0·3 a.m.s.l. . .	30	6·9	1·0	212	29	8·3	3·1	223	30	21·7	21·6	277	29	11·2	8·5	287	26	15·0	12·6	251	30	10·0	9·5	327
0·6 . , .	30	7·5	3·2	259	28	8·7	4·0	236	30	24·9	24·6	280	29	11·2	10·3	278	26	19·0	17·1	259	30	14·4	13·9	323
0·9 . , .	28	8·0	5·8	258	27	8·9	4·2	236	30	21·2	20·6	282	29	12·0	11·3	270	26	18·9	17·8	267	30	18·9	18·5	314
1·5 . , .	28	8·7	6·4	246	26	8·1	6·0	245	29	12·5	11·3	275	29	13·2	12·6	261	26	12·9	11·4	275	30	19·2	18·5	302
2·1 . , .	25	8·0	5·4	224	18	8·0	3·7	209	29	8·4	6·9	277	28	12·9	12·1	262	26	10·1	8·1	281	30	17·5	16·6	295
3·0 . , .	21	8·6	1·5	165	14	4·8	4·2	124	27	11·0	9·3	289	28	13·7	12·9	273	22	14·2	10·8	290	30	16·1	13·8	284
3·6 . , .	16	8·3	3·6	108	13	9·2	7·3	125	23	11·9	9·7	280	27	14·0	12·7	276	14	13·3	11·7	280	30	14·5	12·3	282
4·5 . , .	12	10·7	4·1	067	11	10·8	10·8	098	23	10·7	7·5	275	22	14·5	12·4	277	11	12·4	9·1	277	30	12·0	8·5	277
5·4 . , .	6	8·5	3·3	168	9	11·3	9·0	111	14	8·7	1·2	241	18	10·0	5·2	272	7	6·3	3·2	048	30	9·7	4·1	266
6·0 . , .	4	9·3	6·2	137	7	7·7	5·9	110	10	10·1	3·0	100	14	9·4	1·9	225	6	5·3	2·6	067	29	8·8	1·3	340
7·2 . , .	1	12·0	12·0	075	3	9·7	9·1	107	5	11·4	5·8	127	12	10·2	4·7	125	1	21·0	21·0	090	28	10·1	5·7	078
9·0 . , .	1	3·0	3·0	015	2	9·5	9·5	125	3	16·0	15·2	108	9	17·9	15·9	098					23	19·2	18·3	098

Station	TRIVANDRUM								UDAIPUR															
	1130				1730*				2330				0530				1730				2330			
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Ht. in Km.																								
Surface . . .	30	7·7	7·1	319	30	11·5	10·9	298	30	5·8	5·6	321	30	1·6	1·2	230	30	3·4	2·2	248	30	1·6	1·4	228
0·15 a.g. . .	30	12·6	11·6	310	30	12·6	12·2	300	30	13·3	13·0	321	28	7·6	4·9	259	30	9·9	5·0	258	29	6·9	4·7	249
0·3 a.m.s.l. . .	30	12·3	11·5	310	30	13·5	13·1	304	30	15·8	15·3	321												
0·6 . , .	27	13·3	13·2	315	30	15·8	15·5	306	29	19·7	19·3	321												
0·9 . , .	23	16·6	16·1	314	30	18·3	17·8	310	29	20·3	20·0	321	28	9·9	6·2	264	30	11·6	6·3	262	29	9·9	5·7	258
1·5 . , .	7	22·7	22·6	309	30	17·7	17·3	311	25	18·5	18·1	313	13	10·8	5·6	328	24	14·2	5·8	282	17	12·2	8·3	305
2·1 . , .	2	16·0	16·0	315	30	16·1	14·9	304	24	17·6	16·0	308	9	9·3	4·6	018	16	13·4	4·9	312	13	9·0	5·1	337
3·0 . , .	1	13·0	13·0	305	30	16·2	14·6	286	16	10·2	7·6	300	8	7·9	3·1	020	10	11·6	4·2	308	10	9·2	6·9	001
3·6 . , .	1	13·0	13·0	290	30	14·6	12·7	282	12	6·9	3·2	320	6	10·2	5·3	014	8	12·0	6·1	275	9	5·1	4·3	358
4·5 . , .	1	8·0	8·0	240	30	12·0	9·2	285	8	5·4	0·6	251	2	3·5	3·5	300	5	9·0	8·2	278	6	5·2	1·1	274
5·4 . , .	1	11·0	11·0	255	30	10·0	5·1	294	6	5·8	3·1	305					3	7·0	3·5	266	4	6·5	2·1	172
6·0 . , .	1	6·0	6·0	285	30	9·2	2·9	333	6	7·0	1·8	333					3	5·7	2·5	320	2	3·0	1·2	195
7·2 . , .					30	10·3	4·8	085	2	10·5	8·7	106					2	6·0	4·4	200	1	3·0	3·0	215
9·0 . , .					30	19·7	17·4	101	1	21·0	21·0	080					2	8·5	7·1	331				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

September, 1958 (Bhadra 10—Asvina 8, 1880 Saka)

Station	VENGURLA								VERAVAL															
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	1.5	0.2	030	30	5.2	4.6	278	30	1.4	0.9	279	28	11.2	10.7	274	30	11.3	10.0	268	29	12.5	11.3	275
0.15 a.g. . .	27	8.4	3.5	304	29	12.0	10.9	281	28	9.1	5.5	298	28	15.6	14.7	271	28	15.0	14.0	265	29	17.2	16.0	264
0.3 a.m.s.l. . .	27	10.4	7.3	289	29	14.3	12.7	287	28	12.2	9.6	299	28	15.9	15.1	272	28	17.0	15.5	270	29	11.1	16.6	273
0.6 . , .	27	13.7	11.6	289	28	17.7	15.7	291	27	16.0	13.4	300	28	16.1	15.2	270	26	19.7	14.1	272	29	19.4	18.0	274
0.9 . , .	24	16.0	13.8	294	25	19.5	18.0	300	26	16.8	14.6	304	28	16.0	14.9	270	20	17.1	16.1	279	29	20.6	19.0	276
1.5 . , .	13	15.8	14.6	296	17	15.8	15.1	295	18	14.5	13.1	297	28	13.9	12.1	268	18	13.3	12.7	263	29	16.6	14.0	274
2 . , .	7	7.1	3.5	262	14	11.5	10.9	288	12	11.2	10.3	279	28	13.0	9.5	280	13	7.7	5.9	278	29	18.3	11.6	262
3.0 . , .	7	6.0	1.7	212	6	9.5	8.6	266	11	9.5	5.2	279	28	11.4	6.8	320	11	6.6	2.3	267	29	12.3	8.7	293
3.6 . , .	4	5.7	4.6	236	6	9.5	9.2	289	3	7.7	1.0	229	28	10.9	6.1	333	10	6.8	2.0	225	29	10.4	8.5	212
4.5 . , .	1	9.0	9.0	285	4	8.7	8.1	282	1	7.0	7.0	315	28	10.1	3.5	345	10	8.2	1.8	102	28	8.8	0.4	225
5.4 . , .					4	9.5	2.5	277	1	10.0	10.0	335	27	9.5	2.8	343	10	8.6	1.8	052	28	10.1	2.3	049
6.0 . , .					4	6.3	1.8	001					27	9.3	2.7	047	10	9.5	3.5	004	28	9.9	1.9	042
7.2 . , .					3	11.3	7.2	065					26	9.8	3.7	069	8	9.0	5.4	048	28	10.5	4.3	042
9.0 . , .					1	9.0	9.0	130					23	10.2	6.4	091	5	11.8	9.6	047	27	13.3	10.1	076

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9.0 Km. above mean sea level

September, 1958 (Bhadra 10—Asvina 8, 1880 Saka)

Ht. in Km.	n	V	v	D	Ht. in Km.	n	V	v	D	Ht. in Km.	n	V	v	D	Ht. in Km.	n	V	v	D	
AGARTALA					ANANTAPUR					BHUJ					GANNAVARAM					
0530 hrs.					0530 hrs.					1730 hrs.					1730 hrs.					
10.5	2	6.5	1.5	217	10.5	3	25.0	24.9	087	10.5	7	9.0	2.5	101	10.5	1	20.0	20.0	090	
12.0	2	9.5	4.9	345	12.0	1	31.0	31.0	085	12.0	6	16.0	9.0	135						
14.1	2	7.5	2.6	055	14.1	1	69.0	69.0	100	14.1	4	15.3	12.3	099						
16.2	1	2.0	2.0	170						16.2	3	20.3	20.2	108						
										1730 hrs.										
										18.0	2	29.0	28.7	117	10.5	9	16.5	14.0	065	
10.5	1	15.0	15.0	135	10.5	3	17.3	17.1	099	21.0	2	63.5	63.5	114	12.0	4	8.2	7.8	040	
						12.0	3	27.3	17.3	085	24.0	1	48.0	48.0	100	14.1	2	13.0	13.0	039
						14.1	3	39.7	18.5	105										
						16.2	1	75.0	75.0	105										
AMAUSSI					BAGHDODGRA					BIKANER					JODHPUR					
1730 hrs.					10.5					1730 hrs.					0530 hrs.*					
10.5	1	11.0	11.0	020						12.0	3	12.0	9.0	218	14.1	2	16.5	15.9	067	
12.0	1	20.0	20.0	005						14.1										
										10.5	3	18.7	18.7	241						
										14.1	2	8.5	8.0	217						
										12.0	1	52.0	52.0	225						
										10.5										
AMBALA					BAMRAULI					COCHIN					GAYA					
1730 hrs.					0530 hrs.*					1730 hrs.					1730 hrs.*					
10.5	2	13.5	12.7	279						10.5	2	22.0	20.5	074						
12.0	2	15.5	15.3	275						12.0	1	22.0	22.0	110	10.5	5	10.2	3.4	094	
14.1	1	6.0	6.0	270						14.1	1	59.0	59.0	105	12.0	5	12.2	6.7	020	
16.2	1	12.0	12.0	270						16.2	1	33.0	33.0	085	14.1	3	15.0	14.8	063	
18.0	1	11.0	11.0	260						16.2	3	18.7	17.7	069						
21.0	1	11.0	11.0	110						10.5	2	24.0	24.0	088						
24.0	1	10.0	10.0	360						14.1	2	16.0	11.3	040	10.5	3	6.0	2.6	127	
										12.0	1	21.0	21.0	360	12.0	2	11.5	11.2	216	
										14.1	1	19.0	19.0	060	14.1	2	15.5	6.3	324	
										16.2	1	9.0	9.0	360	16.2	1	63.6	52.9	088	
AMRITSAR					10.5					DARJEELING					10.5					
0530 hrs.*					1730 hrs.*					18.0					18.0					
10.5	10	31.8	26.9	266						10.5	23	9.2	3.2	097	14.1	1	19.0	19.0	060	
12.0	10	36.7	34.1	268						14.1	1	19.0	19.0	060	14.1	2	15.5	6.3	324	
14.1	3	42.7	41.9	277						16.2	1	87.0	87.0	090	16.2	1	9.0	9.0	360	
16.2	1	22.0	22.0	260						18.0	1	21.0	21.0	193	18.0	1	14.0	14.0	170	
18.0	1	15.0	15.0	020						21.0	1	23.0	23.0	145						
										10.5	28	14.7	8.4	072						
										12.0	21	16.7	11.7	063						
BAREILLY					BANGALORE					GWALIOR					JABALPUR					
1730 hrs.*					14.1					1730 hrs.					14.1					
10.5	11	30.4	28.2	266						16.2	6	25.0	18.7	075	10.5	4	30.7	29.4	102	
12.0	8	33.3	31.7	266						18.0	4	32.0	28.4	076	12.0	1	44.0	44.0	105	
14.1	6	33.5	30.7	262						21.0	4	48.5	48.5	080	14.1	1	45.0	45.0	075	
16.2	3	27.0	23.3	278						10.5	2	43.0	43.0	105	16.2	1	51.0	51.0	085	
										12.0	1	21.0	21.0	310	12.0	2	23.0	23.0	080	
										14.1	1	23.0	23.0	080	14.1	1	11.0	11.0	105	
										16.2	1	21.0	21.0	310	16.2	2	57.0	57.0	076	

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9.0 Km. above mean sea level

September, 1958 (Bhadra 10—Asvina 8, 1880 Saka)

Ht. in Km.	n	V	v	D	Ht. in Km.	n	V	v	D	Ht. in Km.	n	V	v	D	
NAGPUR															
0530 hrs.*															
10.5	11	15.4	13.4	089	10.5	8	28.9	27.1	089	10.5	2	30.0	29.9	082	
12.0	8	22.5	20.1	078	12.0	7	41.7	41.1	087						
14.1	7	32.1	28.6	078	14.1	3	59.0	56.0	089						
16.2	3	36.7	36.5	093											
18.0	1	50.0	50.0	090	10.5	1	19.0	19.0	110						
21.0	1	58.0	58.0	090	12.0	1	23.0	23.0	090	10.5	21	34.1	33.3	094	
										12.0	15	44.3	43.9	089	
10.5	6	13.2	11.7	094	10.5	17	26.2	25.3	087	14.1	5	63.6	62.0	087	
12.0	4	21.7	21.3	091	12.0	11	43.2	40.5	085	16.2	2	64.5	60.7	086	
14.1	2	37.0	36.5	091	14.1	6	54.2	53.2	089						
16.2	2	40.5	40.5	070						10.5	29	33.7	32.1	094	
18.0	2	27.0	26.9	095						12.0	23	49.0	48.3	089	
NEW DELHI															
					10.5	5	8.4	2.4	060	16.2	4	61.3	57.7	080	
					12.0	3	11.0	4.1	294						
10.5	23	12.7	7.8	279											
12.0	23	13.8	10.3	253	10.5	2	14.0	9.9	327						
14.1	21	16.9	8.6	254	12.0	2	6.5	4.5	084	10.5	1	18.0	18.0	350	
16.2	16	12.4	4.4	031	14.1	1	35.0	35.0	075	12.0	1	6.0	6.0	030	
18.0	13	17.0	16.3	059						14.1	1	4.0	4.0	050	
21.0	4	17.0	13.3	079											
SANTACRUZ															
					10.5	16	14.9	13.5	081						
24.0	1	35.0	35.0	090											
					0530 hrs.*										
					1130 hrs.										
10.5	2	7.0	2.6	017	12.0	12	21.7	20.3	094	10.5	22	16.4	13.7	090	
12.0	1	10.0	10.0	280	14.1	5	28.6	27.0	087	12.0	22	23.5	21.7	098	
					1730 hrs.*					14.1	18	35.2	32.8	095	
16.2	26	13.8	5.6	241	16.2	3	47.7	46.7	084		16.2	9	35.7	35.0	091
18.0	23	15.0	7.9	093						18.0	4	26.3	26.0	089	
21.0	3	34.7	34.3	098	14.1	13	23.6	18.8	072						
24.0	1	22.0	22.0	060	16.2	7	36.0	35.2	094	10.5	4	15.0	14.7	083	
					16.2	2	60.0	59.5	085	12.0	2	27.0	27.0	114	
					18.0	2	49.0	29.0	081	14.1	2	34.5	34.5	110	
										16.2	2	30.5	30.5	096	
POONA															
										10.5	25	18.0	16.0	084	
										12.0	24	24.8	20.6	098	
10.5	3	30.7	28.3	091	10.5	1	9.0	9.0	335	14.1	18	33.4	30.3	094	
12.0	3	36.0	35.9	096	12.0	1	18.0	18.0	315	16.2	16	39.3	38.7	095	
14.1	1	66.0	66.0	095	14.1	1	4.0	4.0	020	18.0	7	38.6	36.4	099	
16.2	1	46.0	46.0	090						21.0	1	64.0	64.0	090	
18.0	1	58.0	58.0	080	10.5	1	8.0	8.0	280	24.0	1	62.0	62.0	090	
21.0	1	29.0	29.0	090	12.0	1	33.0	33.0	280						

RADIOSONDE DATA**September, 1958 (Bhadra 10—Asvina 8, 1880 Saka)**

During the month, observations of upper air temperature, pressure and humidity were made at 13 stations in India as given in the list below. For a detailed description of the instruments used, a reference may be made to the I. M. D. Scientific Notes Nos. 112 and 113 (Volume IX).

LIST OF RADIOSONDE STATIONS IN INDIA

Serial No.	Name of Station	Type of instrument used	Date of starting	Hours of routine observations in GMT during the month	Remarks
1	Allahabad	Clock type	1st October, 1944	00 and 12	
2	Amritsar	Clock type	21st June, 1957	00 and 12	
3	Bombay	Clock type	7th September, 1954	00 and 12	
4	Calcutta	Clock type	13th December, 1946	00 and 12	Fan type used from 13-12-46 to 30-11-47.
5	Gauhati	Clock type	22nd July, 1955	00 and 12	
6	Jodhpur	Clock type	17th April, 1946	00 and 12	
7	Madras	Fan type	29th June, 1946	00 and 12	
8	Nagpur	Fan type	1st October, 1946	00 and 12	
9	New Delhi	Clock type	3rd December, 1943	00 and 12	
10	Port Blair	Fan type	4th December, 1949	00 and 12	
11	Trivandrum	Fan type	1st July, 1947	00 and 12	
12	Veraval	Fan type	3rd October, 1944	00 and 12	
13	Visakhapatnam	Fan type	8th December, 1946	00 and 12	

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 00 hrs. G.M.T.

September, 1958 (Bhadra 10—Asvina 8, 1880 Saka)

Standard Pressure Surface mbs.	ALLAHABAD Surf. Pr. (992 mb.)						AMRITSAR (978 mb.)						BOMBAY (1005 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew point
Surface	30	098	299.8	302	298	297.8	30	230	297.8	302	294	296.6	30	013	298.6	300	296	296.9
1000	28	025	..	..	..	..	17	025	..	..	..	..	30	056	..	..	..	..
900	28	955	296.5	299	294	293.1	17	953	297.6	300	294	292.5	30	978	293.9	297	292	291.6
850	28	1454	293.6	296	291	290.1	17	1452	294.6	298	293	289.5	30	1473	291.5	296	288	288.6
800	28	1977	290.8	294	288	287.4	17	1970	291.6	295	289	286.4	30	1992	289.1	294	286	285.2
700	28	3111	285.2	289	283	280.5	17	3109	285.0	289	282	277.5	30	3120	284.3	290	281	277.2
600	28	4391	278.8	283	273	273.7	17	4386	278.2	285	273	267.3	30	4395	278.2	287	275	270.0
500	27	5864	271.1	275	268	265.3	17	5853	270.4	276	266	253.9	29	5867	270.9	282	268	262.1
400	27	7610	261.5	267	256	..	17	7592	261.6	270	256	..	29	7610	261.6	274	254	..
300	23	9756	247.8	253	239	..	14	9726	246.9	255	239	..	19	9765	247.7	255	237	..
250	20	11061	238.1	245	226	..	12	11014	236.9	242	231	..	16	11032	237.7	247	231	..
200	20	12580	226.9	236	214	..	11	12513	226.2	233	218	..	10	12572	226.7	234	218	..
175	18	13459	221.7	230	215	..	8	13395	219.3	226	211	..	6	13372	217.2	228	210	..
150	18	14457	214.7	222	207	..	6	14422	214.0	222	203	..	..	..	..	..	..	..
125	13	15609	207.8	216	202	..	6	15553	206.8	216	194	..	..	..	..	..	..	..
100	10	16925	202.7	210	196	..	5	16853	201.8	206	199	..	..	..	..	..	..	..
80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	CALCUTTA (1003 mb.)						GAUHATI (1000 mb.)						JODHPUR (978 mb.)					
Surface	30	006	299.4	301	298	298.7	30	049	299.7	301	299	298.2	29	218	298.9	302	296	296.3
1000	30	033	..	..	..	..	28	049	..	..	..	..	29	022	..	..	..	..
900	30	955	294.7	297	293	292.3	28	973	295.5	299	293	292.6	29	947	295.8	300	294	292.3
850	30	1449	292.1	294	290	289.3	28	1468	292.9	296	290	289.8	29	1444	293.6	298	290	289.0
800	30	1969	289.6	292	287	286.7	28	1988	290.1	294	288	286.8	29	1967	291.1	295	288	285.6
700	30	3097	284.3	287	280	280.5	28	3116	284.1	288	279	280.5	29	3102	285.5	289	279	278.8
600	30	4371	277.4	281	274	273.8	28	4387	277.4	281	269	273.8	28	4383	279.3	283	274	270.6
500	30	5840	269.8	274	266	265.3	28	5847	269.4	274	260	..	28	5858	271.9	272	265	265.3
400	30	7576	260.5	265	256	..	28	7582	259.7	265	253	..	28	7609	262.6	269	258	..
300	27	9718	246.4	255	239	..	17	9715	247.0	251	238	..	28	9771	248.9	256	242	..
250	22	11019	237.7	244	234	..	12	11025	238.4	244	234	..	26	11087	240.0	248	233	..
200	14	12530	225.1	230	219	..	10	12528	227.6	234	224	..	23	12606	228.4	238	219	..
175	8	13392	217.7	222	214	..	9	13372	219.4	224	217	..	22	13492	221.4	231	214	..
150	7	14362	209.4	215	205	..	6	14357	213.3	219	212	..	21	14472	213.8	225	206	..
125	5	15394	200.4	205	196	..	..	..	..	..	..	..	15	15555	204.3	213	197	..
100	..	..	..	..	..	..	..	..	..	..	..	..	11	16888	198.6	208	195	..
80	..	..	..	..	..	..	..	..	..	..	..	..	5	18171	202.8	217	196	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 00 hrs. G. M. T.

September, 1958 (Bhadra 10—Asvina 8, 1880 Saka)

Standard Pressure Surface mbs.	MADRAS Surf. Pr. (1005 mb.)						NAGPUR (969 mb.)						NEW DELHI (979 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	015	301.0	303	299	297.2	29	311	298.1	300	296	295.7	30	210	298.8	300	296	297.6
1000	30	056	..	..	..	..	29	033	..	..	..	..	30	023	..	..	..	..
900	30	984	295.2	297	292	290.5	29	958	294.9	297	293	292.0	29	951	296.2	300	292	293.1
850	30	1478	291.9	294	287	287.9	29	1454	292.1	295	290	289.5	29	1449	293.5	296	290	290.2
800	30	1997	288.6	291	294	284.9	29	1975	289.6	293	287	287.1	29	1972	290.2	293	287	286.9
700	30	3119	281.8	286	278	278.3	29	3105	284.4	288	281	280.0	29	3108	285.2	287	281	280.3
600	30	4383	275.6	280	272	259.9	29	4379	277.7	283	273	272.6	29	4387	278.7	282	275	272.6
500	30	5839	267.9	273	262	..	26	5850	269.3	275	266	..	28	5861	270.6	274	267	258.0
400	30	7557	256.8	262	252	..	22	7591	259.7	264	256	..	28	7604	261.0	265	256	..
300	23	9662	241.4	248	235	..	16	9726	245.2	254	238	..	25	9744	246.9	250	241	..
250	21	10925	231.4	239	227	..	12	10985	233.8	243	227	..	23	11042	237.4	242	230	..
200	20	12399	219.1	228	212	..	7	12447	221.4	227	213	..	22	12560	226.1	231	219	..
175	19	13240	213.1	221	206	..	8	13334	216.7	222	207	..	22	13432	219.2	225	210	..
150	16	14180	206.7	217	198	..	8	14300	210.7	217	203	..	22	14405	212.2	219	201	..
125	12	15303	202.0	209	190	..	..	..	..	..	..	..	21	15507	203.8	212	192	..
100	6	16593	196.3	208	188	..	..	..	..	..	..	..	17	16836	198.1	205	192	..
80	..	..	..	..	..	..	..	..	..	..	..	..	15	18122	200.5	205	195	..
	PORT BLAIR (999 mb.)						TRIVANDRUM (1002 mb.)						VERaval (1004 mb.)					
Surface	30	079	298.0	301	296	296.7	30	064	298.3	299	297	295.9	30	008	299.9	302	297	297.4
1000	30	071	..	..	..	..	30	077	..	..	..	..	29	044	..	..	..	..
900	30	994	293.7	296	292	292.4	30	997	293.0	296	291	288.3	29	964	293.6	297	290	290.5
850	30	1488	291.3	293	289	289.2	30	1488	290.2	294	288	285.1	29	1456	290.9	295	287	286.5
800	30	2013	288.4	291	286	286.2	30	2004	287.8	291	285	281.4	29	1977	288.9	295	284	282.8
700	30	3135	282.5	285	279	279.8	30	3124	282.9	291	280	272.6	29	3102	283.8	289	278	275.4
600	30	4399	275.4	281	272	272.8	30	4385	275.4	279	273	264.2	29	4372	277.4	281	271	266.5
500	30	5848	267.7	273	265	..	29	5834	266.5	270	263	..	29	5835	269.4	273	264	256.7
400	30	7558	256.1	263	254	..	29	7541	255.5	261	251	..	29	7566	259.4	267	252	..
300	14	9639	241.4	245	239	..	26	9637	239.8	246	231	..	25	9691	244.6	252	236	..
250	11	10896	232.3	235	230	..	25	10896	230.9	239	222	..	25	10974	234.6	246	226	..
200	8	12368	219.8	226	216	..	21	12358	219.0	225	213	..	22	12449	221.2	229	211	..
175	..	..	..	..	..	..	19	13211	214.3	220	207	..	24	13331	215.2	223	205	..
150	..	..	..	..	..	..	15	14192	209.7	217	201	..	24	14289	207.8	216	199	..
125	..	..	..	..	..	..	..	..	..	..	..	..	21	15397	202.8	207	194	..
100	..	..	..	..	..	..	..	..	..	..	..	..	11	16721	200.3	208	193	..
80	..	..	..	..	..	..	..	..	..	..	..	..	7	18076	206.0	226	199	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 00 hrs. G. M. T.

September, 1958 (Bhadra 10—Asvina 8, 1880 Saka)

Standard Pressure Surface mbs.	No. of Obs.	Ht. gpm.	Temperature "A"			
			Mean	Max.	Min.	Dew point
Surface	30	048	299.7	301	298	297.4
1000	30	035	..	..	..	..
900	30	965	295.8	299	292	291.4
850	30	1461	292.9	295	289	289.0
800	30	1982	289.6	291	285	286.2
700	30	3108	283.2	287	281	279.6
600	29	4375	276.1	279	273	273.8
500	28	5832	268.3	271	264	..
400	28	7556	257.9	262	255	..
300	21	9679	243.3	248	239	..
250	14	10974	235.1	241	230	..
200	10	12495	224.3	231	220	..
175	5	13360	219.2	223	216	..
150	5	14346	213.6	219	209	..
125						
100						
80						

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 12 hrs. G. M. T.

September, 1958 (Bhadra 10—Asvina 8, 1880 Saka)

Standard Pressure Surface mbs.	ALLAHABAD Surf. Pr. (990 mb.)							AMRITSAR (976 mb.)							BOMBAY (1004 mb.)									
	Temperature °A			Temperature °A				Temperature °A			Temperature °A				Temperature °A				Temperature °A					
	No. of Obs.	Ht. gpm.	Mean	Max.	Min.	Dew Point	No. of Obs.	Ht. gpm.	Mean	Max.	Min.	Dew Point	No. of Obs.	Ht. gpm.	Mean	Max.	Min.	Dew Point	No. of Obs.	Ht. gpm.	Mean	Max.	Min.	Dew Point
Surface	30	98	302.9	306	299	298.3	30	230	302.1	308	296	296.4	30	13	300.9	303	298	297.2						
1000	30	8	..	..	..	..	19	15	..	..	..	..	30	49	..	..	..	..		
900	30	943	297.5	300	295	293.8	19	955	300.0	306	292	290.9	30	975	294.3	298	291	291.3						
850	30	1443	294.2	297	291	290.6	19	1457	296.6	302	290	287.2	30	1470	291.6	295	289	288.5						
800	30	1967	291.1	294	288	287.1	19	1983	293.2	296	287	282.5	30	1990	289.0	293	285	285.4						
700	30	3102	285.4	289	283	280.9	19	3121	286.4	291	281	272.9	30	3119	284.4	287	278	277.5						
600	30	4381	278.9	284	276	272.9	18	4403	279.4	285	273	263.1	30	4395	278.6	282	275	269.8						
500	30	5854	271.0	275	266	265.6	17	5879	271.3	276	267	..	30	5872	272.3	276	269	264.3						
400	30	7598	261.3	267	258	..	17	7621	260.5	266	254	..	29	7620	262.4	267	258	..						
300	26	9747	247.5	254	240	..	13	9749	245.0	252	240	..	19	9787	250.5	258	240	..						
250	25	11045	238.0	246	229	..	12	11046	236.3	245	231	..	14	11092	241.2	247	230	..						
200	25	12562	225.6	234	216	..	9	12577	226.4	237	215	..	8	12594	227.3	235	217	..						
175	22	13428	218.2	229	209	..	9	13453	220.3	231	206	..	5	13398	216.6	229	209	..						
150	19	14420	212.0	224	204	..	7	14423	215.0	228	202	..	5	14377	207.6	221	201	..						
125	14	15580	206.3	217	198	..																		
100	9	16901	202.3	214	193	..																		
80																								
	CALCUTTA (1001 mb.)							GAUHATI (997 mb.)							JODHPUR (977 mb.)									
Surface	30	6	301.5	306	299	299.0	30	49	302.0	306	299	299.7	30	218	303.4	308	298	196.5						
1000	30	18	..	..	..	..	30	23	..	..	..	..	30	6	..	..	..	..		
900	30	944	296.3	301	294	293.1	30	954	297.7	303	294	293.2	30	945	298.2	303	295	292.6						
850	30	1440	293.5	297	291	289.8	30	1453	295.2	300	292	290.9	30	1445	294.8	298	292	290.2						
800	30	1962	290.8	294	288	286.7	30	1974	292.9	299	289	287.9	30	1970	291.8	295	289	287.3						
700	30	3095	285.4	288	282	280.4	30	3114	285.9	290	283	280.7	29	3107	285.8	291	281	279.7						
600	30	4374	278.8	282	274	272.8	30	4394	279.4	287	275	273.5	28	4392	280.1	285	275	270.9						
500	30	5848	270.9	276	266	264.3	30	5868	271.0	276	265	264.8	26	5876	272.7	278	268	264.5						
400	30	7590	260.8	265	257	..	30	7610	261.2	267	254	..	26	7631	262.6	268	257	..						
300	29	9733	246.8	253	242	..	18	9775	248.2	257	241	..	23	9786	248.6	255	242	..						
250	25	11033	237.2	247	230	..	11	11098	240.6	246	235	..	22	11091	239.4	246	230	..						
200	19	12543	224.8	232	220	..	10	12643	229.6	234	224	..	22	12621	227.7	235	215	..						
175	15	13412	218.5	223	212	..	8	13509	222.9	230	218	..	22	13497	220.4	228	207	207						
150	12	14379	211.1	215	205	..	7	14512	215.3	222	211	..	19	14480	212.5	219	206	..						
125	7	15480	204.7	207	199	..	6	15613	207.8	211	205	..	16	15591	205.3	209	200	..						
100						..	6	16967	201.0	204	198	..	14	16918	198.8	207	193	..						
80						..							11	18265	201.9	208	193	..						

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 12 hrs. G. M. T.

September, 1958 (Bhadra 10—Asvina 8, 1880 Saka)

Standard Pressure Surface mbs.	MADRAS Surf. Pr. (1003 mb.)						NAGPUR (968 mb.)						NEW DELHI (978 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	15	303.9	307	302	297.5	29	311	302.0	305	298	296.4	30	210	302.7	307	298	297.8
1000	30	38	..	..	..	..	29	16	..	..	..	..	30	9	..	..	..	..
900	30	974	297.5	300	295	291.6	29	952	297.2	301	293	292.8	30	948	298.2	301	293	294.4
850	30	1474	294.0	297	292	288.9	29	1451	293.3	298	290	290.1	30	1449	295.2	298	292	291.3
800	30	1996	290.1	293	287	285.9	29	1974	289.8	295	287	287.3	30	1971	292.0	296	289	288.2
700	30	3124	283.1	286	281	278.7	29	3104	283.9	289	281	279.9	30	3112	286.5	290	283	280.9
600	30	4393	277.0	282	273	270.5	29	4380	277.4	283	273	272.2	30	4395	279.7	283	275	273.2
500	30	5854	269.1	272	265	..	27	5847	269.5	273	265	..	29	5875	272.3	277	269	263.8
400	30	7578	256.6	261	253	..	18	7576	259.4	263	252	..	29	7624	261.9	267	258	..
300	26	9685	241.9	245	234	..	10	9705	245.6	249	243	..	27	9777	247.6	253	241	..
250	22	10956	231.4	238	224	..	8	11004	235.7	239	233	..	27	11075	238.0	243	231	..
200	20	12440	219.3	225	212	..							26	12597	226.3	233	218	..
175	16	13275	213.6	219	206	..							26	13469	219.2	226	210	..
150	15	14235	206.4	213	199	..							26	14440	211.1	221	199	..
125	9	15313	201.1	207	193	..							23	15538	202.4	213	192	..
100	5	16629	193.8	206	193	..							16	16840	197.9	206	189	..
80													9	18125	198.7	204	193	..
	PORT BLAIR (998 mb.)						TRIVANDRUM (1000 mb.)						VERAVAL (1004 mb.)					
Surface	30	79	299.2	301	295	297.0	30	64	301.7	303	300	296.6	30	8	301.6	304	297	298.1
1000	30	62	..	..	..	..	30	67	..	..	..	..	29	44	..	..	..	..
900	30	984	294.1	298	292	292.6	30	994	294.9	297	292	288.9	29	966	294.0	296	291	290.6
850	30	1481	291.7	294	289	288.9	30	1489	291.9	295	289	286.1	29	1459	291.4	297	287	286.6
800	30	2002	289.0	292	287	286.0	30	2007	289.1	292	287	282.6	29	1978	289.2	294	286	283.8
700	30	3126	283.2	287	278	279.4	30	3130	283.1	287	279	274.6	29	3106	284.3	290	280	276.2
600	30	4393	276.5	283	273	272.5	30	4398	276.4	280	273	266.0	29	4379	278.1	281	274	269.5
500	29	5850	268.0	272	260	..	30	5854	268.1	273	264	..	29	5849	270.9	275	267	261.3
400	28	7570	258.0	264	252	..	30	7572	257.1	261	252	..	28	7587	259.8	268	255	..
300	19	9675	242.8	247	238	..	30	9679	241.5	248	237	..	27	9716	244.7	256	236	..
250	17	10945	233.2	242	225	..	30	10944	231.4	239	226	..	24	10991	234.1	241	229	..
200	11	12419	221.7	228	215	..	25	12427	220.0	225	212	..	24	12483	221.8	232	214	..
175	9	13318	214.4	222	208	..	20	13281	213.9	220	203	..	22	13329	214.2	222	206	..
150	8	14224	208.6	217	202	..	18	14245	207.9	215	199	..	22	14285	207.8	216	199	..
125							12	15365	204.7	212	199	..	22	15381	202.2	208	186	..
100							7	16683	199.4	203	195	..	16	16686	198.3	216	192	..
80													15	18018	203.9	215	194	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 12 hrs. G. M. T.

September, 1958 (Bhadra 10—Asvina 8, 1880 Saka)

Standard Pressure Surface mbs.	No. of Obs.	Ht. gpm.	VISAKHAPATNAM Surf. Pr. (997 mb.)			
			Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	30	48	302.0	304	299	298.2
1000	30	23	..	..	..	..
900	30	956	296.2	301	293	292.2
850	30	1453	293.2	296	290	289.6
800	30	1975	289.9	293	287	286.5
700	30	3102	283.7	287	278	280.1
600	30	4374	277.3	281	273	273.5
500	30	5837	268.9	274	265	..
400	26	7561	258.4	262	251	..
300	17	9687	244.4	250	235	..
250	15	10965	235.1	243	227	..
200	12	12460	223.7	231	217	..
175	9	13318	217.7	228	213	..
150	9	14292	211.2	225	205	..
125	8	15363	203.3	213	198	..
100	7	16705	198.3	209	189	..
80						..

Note : Number of observations refer to those of dynamic height.

Means are not worked out for temperature and dew point for the 1000 mb. surface and for dew point for standard pressure surfaces with temperature less than 273 °A.

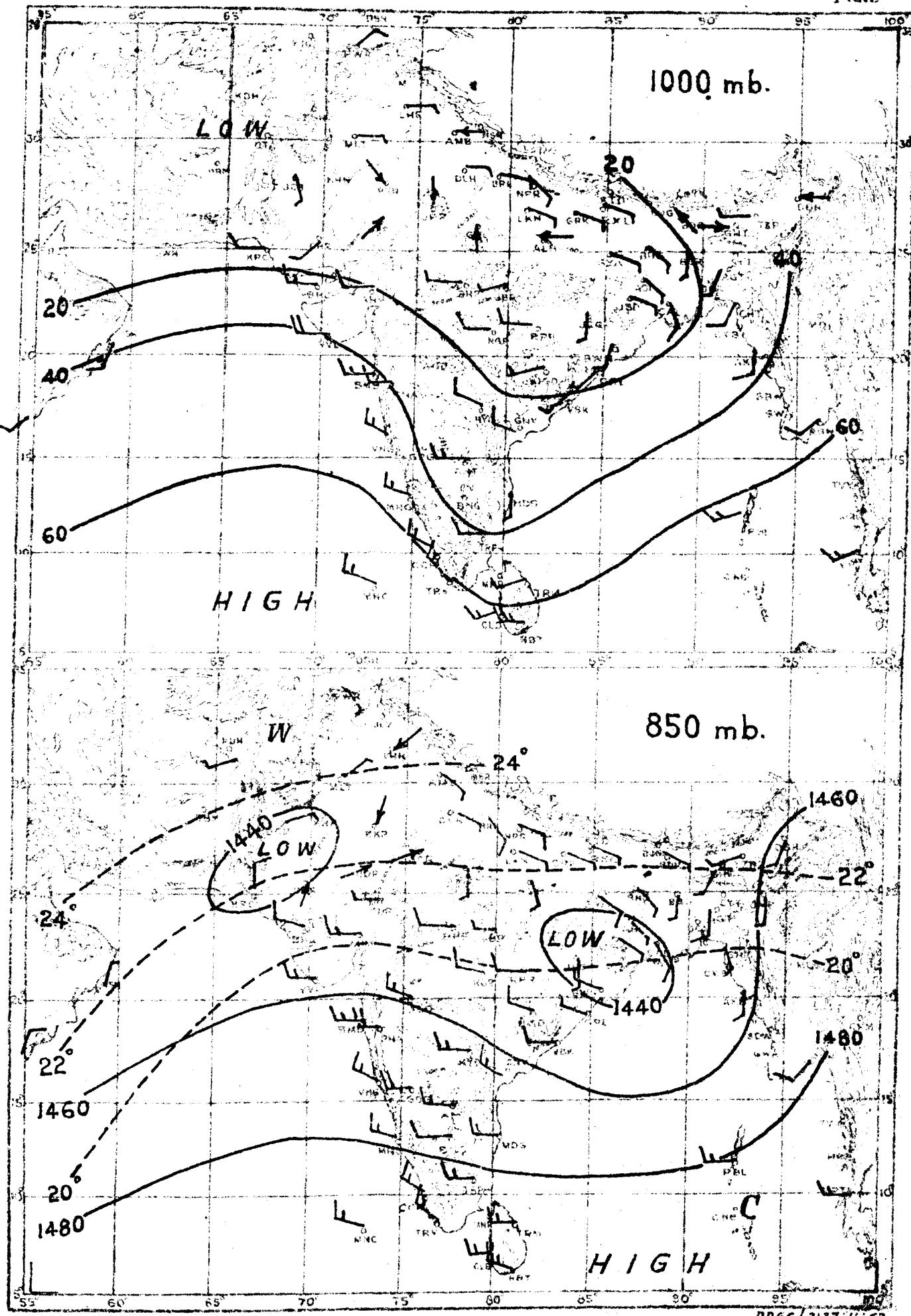
Means are not worked out for less than five observations at standard pressure surfaces.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

SEPTEMBER 1958

IMD

Plate I



RESULTANT WIND

— 5 Knots, — 10 Knots,

— 50 Knots.

----- Isotherms in degrees centigrade

----- Contours in geopotential metres.

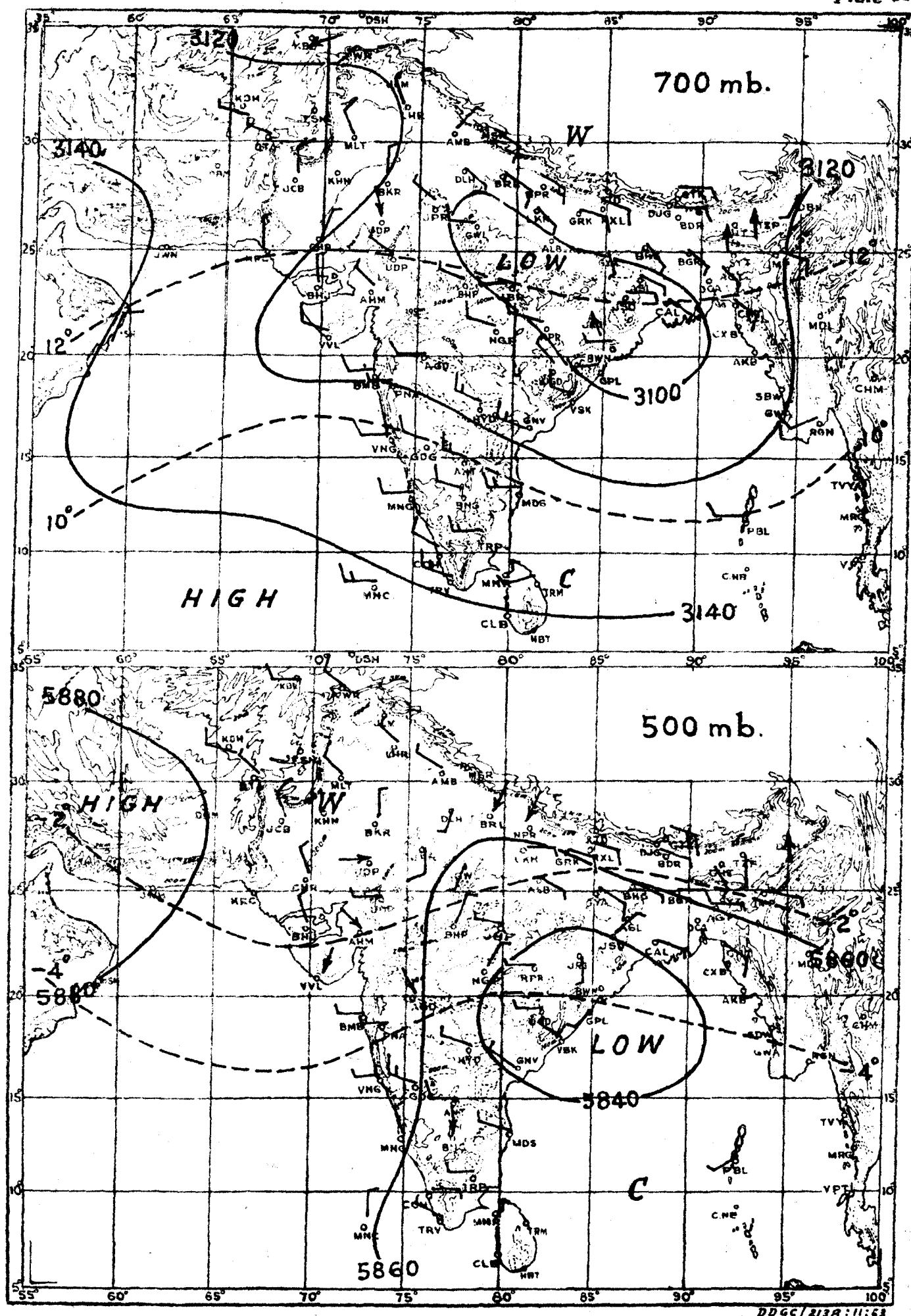
DDG/2137/II/63
O.P.O. LIMA, 1958

MONTHLY MEAN CONSTANT PRESSURE CHARTS

SEPTEMBER 1958

L.Met.D.

Plate II

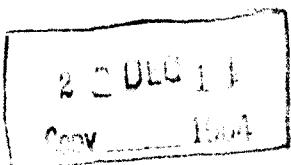


RESULTANT WIND — 5 Knots, — 10 Knots, — 50 Knots.

----- Isotherms in degrees centigrade ----- Contours in geopotential metres.

G.P.Z.A. BOGOTA, 1963

DD GC/2138:11:68

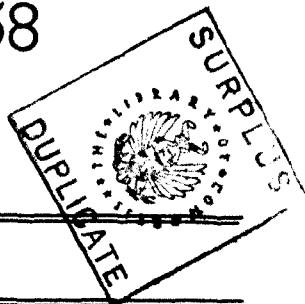


Registered No. B-3097

INDIA WEATHER REVIEW, 1958

Monthly Weather Report

October



Published by authority of the Government of India

Chief features—

- (1) Formation and movement of a series of cyclonic storms and depressions in the Arabian Sea and the Bay of Bengal; and
- (2) More than usual rainfall over most of the country.

A low pressure area developed over south Orissa on 1st October. It moved over to Uttar Pradesh on 3rd, gradually weakened and filled up over that region by 6th. In association with it, moderate to active monsoon conditions prevailed over the Punjab (I), Uttar Pradesh and Madhya Pradesh during the first four days of the month. Locally heavy to very heavy rains occurred in north Madhya Pradesh and Uttar Pradesh on 2nd and 3rd. Saugor reported 20 cms on 2nd and Lucknow (Amausi) 19 cms on 3rd. The rivers Ganga and Gomati were reported to be in spate. With the weakening and filling up of this low pressure area, the southwest monsoon withdrew and dry continental air rapidly spread over north-west India, Uttar Pradesh, Madhya Pradesh and the northern parts of the Bombay State.

A depression formed in the southeast and the adjoining southwest Bay of Bengal on 6th. It became a deep depression over the southwest Bay by 7th morning, crossed east coast between Madras and Nellore the same evening and weakened. Moving westnorthwestwards, it emerged in the Arabians Sea as a depression centred about 300 Kms to the southwest of Ratnagiri on 9th morning. It rapidly intensified into a severe cyclonic storm centred about 400 Kms to the westsouthwest of Bombay on 10th morning. Moving first towards northwest and then to westnorthwest, it was centred about 400 Kms to the westsouthwest of Dwarka on 15th morning. Without further appreciable movement it weakened rapidly and filled up by 17th. During its first stage as a Bay depression, it caused locally heavy to very heavy rain in the north of the Madras State on 7th and in Rayalaseema on 8th, Cuddapah recording 27 cms on 8th. During the next two days, moist southerlies spread over the north Peninsula and the central parts of the country, giving thundershowers at many places. Subsequently, parts of Bombay State, particularly Saurashtra and Kutch continued to get thundershowers upto 14th. In association with a western disturbance which was moving as an upper air trough across the Nepal and Assam Himalayas, there was a revival of the monsoon over Northeast India towards the end of the week.

In the rear of this western disturbance, dry continental air swept over northeast India and the central parts of the country, bringing an end to the southwest monsoon rains over that region.

The second low pressure area over the central Bay of Bengal got established on the 15th. The low concentrated into a shallow depression on 17th morning with its centre about 300 Kms to the southeast of Masulipatam. It moved slowly in a northwesterly direction and filled up over coastal Andhra Pradesh and the adjoining west central Bay by 23rd. In association with the depression, rainfall occurred at a number of places in coastal Andhra Pradesh, east Madhya Pradesh and Orissa between 17th and 21st. A few very heavy falls were reported from coastal Andhra Pradesh on 20th when Visakhapatnam recorded 29 cms of rain and Kakinada 22 cms, the former figure being an all-time record for Visakhapatnam. According to newspaper reports, the unprecedented rain in Visakhapatnam led to severe floods as a result of which about 20,000 persons were rendered homeless. Breaches on the railway tracks between Waltair and the neighbouring towns were also reported to have been caused by the heavy rains.

A depression formed in the Bay of Bengal with its centre about 400 Kms to the southsoutheast of Calcutta on 22nd evening. It rapidly intensified into a cyclonic storm with centre about 250 Kms to the southeast of Calcutta on 23rd morning. It crossed the Sunderbans coast between Barisal and Naokhali the same night, weakened rapidly and moved away as a low pressure wave across upper Assam by 26th. Although it caused some showers in northeast India, the maximum intensity of weather was felt not in India but in East Pakistan. Comilla recorded 25 cms of rain on 24th.

A shallow depression formed in the southwest Bay of Bengal with its centre about 400 Kms to the eastsoutheast of Nagapattinam on 30th evening. It moved westnorthwestwards and weakened into a trough of low pressure over the southwest Bay of Bengal by 1st November. In association with it, south Peninsula experienced a spell of wet weather, thundershowers being fairly widespread in Kerala on 30th and 31st October.

As a result of the series of cyclonic storms and depressions during the month, the rainfall for the period was more than normal over most of the country.

Total rainfall for the month was in large excess in Orissa, Uttar Pradesh, the Punjab(I) Madhya Pradesh, Gujarat, Saurashtra and Kutch, coastal Andhra Pradesh and Rayalaseema, in moderate excess in Chota Nagpur, Telangana and north Mysore, in slight excess in Assam and Sub-Himalayan West Bengal and normal in Gangetic West Bengal, Bihar, Jammu and Kashmir, Vidarbha, south Mysore and the Arabian Sea Islands. It was in slight defect in the Bay Islands and the Madras State in moderate defect in east Rajasthan, the Konkan, Maharashtra and coastal Mysore and in large defect in west Rajasthan and Kerala.

The mean maximum temperature was above normal in the Bay Islands and the Arabian Sea Islands, below normal in west Uttar Pradesh, the Punjab(I), east Rajasthan, west Madhya Pradesh, Gujarat, Saurashtra and Kutch, coastal Andhra Pradesh, Rayalaseema and coastal Mysore and normal over the rest of the country. The mean minimum temperature was above normal in north-east India, Uttar Pradesh, the Punjab(I), west Rajasthan, Madhya Pradesh, Gujarat, Saurashtra and Kutch and Vidarbha and normal over the rest of the country.

The mean relative humidity was above normal in Chota Nagpur, Uttar Pradesh, the Punjab(I), Rajasthan, Madhya Pradesh, Gujarat, Saurashtra and Kutch, Vidarbha, coastal Andhra Pradesh, Telangana and Rayalaseema and normal over the rest of the country.

The mean cloud amount was normal in the Bay Islands, Assam, Jammu and Kashmir, Bombay State except Vidarbha, in south Mysore and Kerala and above normal over the rest of the country.

Normal data for Himachal Pradesh are absent.

Table I contains the divisional and sub-divisional means of rainfall, temperatures, humidity and cloud amount for the 14 chief political divisions and the 30 sub-divisions. The stations whose observations are used for preparing these means are given in the subsequent tables.

The highest maximum temperature given for any station in the accompanying tables is that recorded within the 24 hours ending at 0830 hrs. IST of the date noted in the succeeding column; similarly the heaviest fall in 24 hours for any station denotes the amount recorded during the 24 hours ending at 0830 hrs. IST of the date given in the succeeding column.

POONA 5,
The 18th August 1960.

C. RAMASWAMY,
for Director General of Observatories.

Page No.	Station	hour	Column	For	Read
<u>Table II</u>					
508	Sibsagar	11	3.0		193.0
508	Rajbat	10	1		16.6
509	Jambalpur	12	+ 0		+ 87.0
509	Daltonganj	7	+ 2.3		+ 2.8
510	Mardoi	2	30.3		31.3
510	Sri Ganganagar	9 (Blank)	(Blank)		31
511	Jaipur (Sanganer Aerodrome)	15	9		0
511	Shopal (Bairagarh)	17	11.4		11.1
511	Sagar	18	5.5		5.6
511	Bechad	19	+ 2.6		..
512	Rajkot (Aerodrome)	19	+ 4.3		..
512	Dahanu	3	+ 0.1		- 0.1
513	Pamban	16	3.4		- 3.4
513	Nagapattinam	20	1		10
513	Coimbatore (Pealmedu Aerodrome)	6	29.9		21.9
513	Tirupattur	10	30		3.0
513	Bijapur	1	Bijapur		Bijapur
513	(Foot Note)	-	(g) Total of 42 days	(g) Mean of 24 days	
514	Ranmalur	12	(Blank)		..
514	Trivandrum	10	4.1		64.1
515	Katung (Chumbi)	7	0.6		- 0.6
<u>Table III</u>					
517	Hondul	0830	8	25.	25.4
517	Tezpur	0830	6	+ 1.2	- 1.2
518	Agartala	0230	22	1	11
518	Jooth Behar (C.W.O.)	1130	10	25.5	29.5
518	Bagdogra	2330	4	1010.2 (b)	1010.2 (1)
518	Bagdogra	2330	7	24.1 (b)	24.1 (1)
518	Bagdogra	2330	8	22.3 (b)	22.3 (1)
518	Bagdogra	2330	9	21.4 (b)	21.4 (1)
518	Bagdogra	2330	10	25.5 (b)	25.5 (1)
518	Bagdogra	2330	11	85 (b)	85 (1)
518	(Foot Note)	-	-	(b) Mean of 19 days	(1) Mean of 19 days
519	Calcutta	1730	3	7	,
519	Suri	1730	17	(Blank)	0
520	Angul	0830	7	28.1	25.7
520	Keonjhar	0830	4	1008.2	1011.2
520	Keonjhar	1730	4	1004.5	1007.5
520	Jamshedpur (P.B.O.)	2330	8	25.5	23.5
520	Ranchi	0830	13	6.6	3.6
520	Purnea	0830	12	+ 5	- 5
521	Gaya	2330	22	7	1
521	Jamui	0830	22	0	7
521	Dumka	1730	26	(Blank)	6
522	Lucknow (Amausi Aerodrome)	0230	11	9	92
522	Lucknow (Amausi Aerodrome)	0530	11	3	93
525	Shopal (Bairagarh)	0830	14	-0.	- 0.1

contd-2.

Page No.	Station	Hour	Column	For	Read
526	Ahmedabad	1130	3	(Blank)	,
526	Ahmedabad	1730	3	(Blank)	,
527	Jamnagar	1130	9	20.5	20.8
527	(Foot Note)	-	-	(b) Mean or 29 days	(b) Mean of 29 days
528	Parbhani	0830	4	1011.1	1011.3
528	Parbhani	0830	5	963.8	964.7
528	Parbhani	1730	4	1006.4	1006.6
528	Parbhani	1730	5	960.1	960.3
533	Dharamshala	0830	27	23	24
533	Abu	0830	27	24	23
533	Kodaikanal	0530	6	(Blank)	..
535	Uorkha	0830	8	19.2	19.3

Page No.	Station	Time in I.S.T	Alt. in Km.	Entry under column	Existing entry	Correct entry
537	Santa Cruz			Height of anemometer (in metres)	14	27
542	Dum Dum	0530*	3.6	n, v, D	Entries may be deleted	
550	Tezpur	2330	1.5	D	29	249
552	Anantapur	0530	12.0	D	148	184
552	Gadag	1730	10.5	Alt. in Km	0.5	10.5
552	Gannavaram	1730		Time of ascent	1730*	1730
553	Axial	0530	14.1	Alt. in Km.	14.0	14.1
553	Santa Cruz	0530*	14.1	Alt. in Km.	14.0	14.1
553	Tiruchirapalli	0530	10.5	v	030	034
553	Veraval	1730*	16.2	v	10.2	16.2
<u>RADIOSONDE DATA</u>						
556	Trivandrum	00	100 mb.	No. of obs.	3	12
558	Jodhpur	12	900 mb.	Max.	308	303
559	Veraval	12	80 mb.	Min.	94	194

SG.24-9

TABLE I—DIVISIONAL AND SUB-DIVISIONAL MEANS—OCTOBER, 1958 (ASVINA 9—KARTIKA 9, 1880 SAKA)

	Rainfall (millimetres)	Percentage of normal	Cloud			Rainfall (millimetres)	Percentage of normal	Cloud															
			Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity %			0830 hrs. I.S.T.	1730 hrs. I.S.T.	0830 hrs. I.S.T.	1730 hrs. I.S.T.	0830 hrs. I.S.T.											
1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9						
Division																							
1. Assam (Including Manipur, Tripura)	152.8 +30.7	125 +11.5	30.5 +0.6	23.0 +1.5	84 0	82 +0.6	5.0 +0.6	3.7	9. Madhya Pradesh	96.9 +48.7	201 -1.3	30.1 +1.5	19.8 +9	74 60	3.2 +1.3	3.8							
2. West Bengal	132.1 +11.5	110 +0.2	31.5 +0.2	24.4 +1.6	78 +1	75 +1.0	3.8 +1.0	3.8	10. Bombay	52.1 -1.7	97 -0.6	32.3 +0.8	21.9 +5	75 57	2.7 +0.3	3.2							
3. Orissa	257.8 +115.3	181 -0.3	31.2 +1.3	24.4 +1.3	83 +5	77 +1.9	5.0 +1.9	5.6	11. Andhra Pradesh	264.8 +129.5	196 -1.0	31.0 +0.6	23.5 +6	82 71	5.4 +1.5	5.6							
4. Bihar	74.1 +9.7	115 +0.3	31.1 +1.5	22.4 +1.5	77 +5	75 +0.9	3.2 +0.9	3.6	12. Madras State	182.7 -30.5	86 -0.3	31.4 +0.6	24.1 +1	80 72	5.9 +1.4	6.3							
5. Uttar Pradesh	93.4 +59.5	276 -1.3	31.3 +2.0	20.7 +2.0	75 +9	64 +1.0	2.0 +1.0	2.6	13. Mysore	119.5 -2.2	98 -0.4	29.6 +0.4	20.8 +2	79 60	5.1 +1.0	5.5							
6. Punjab (India) (Including Himachal Pradesh and Delhi)†	31.3 +19.2	259 -1.2	32.5 +1.5	18.9 +1.5	71 +13	51 +0.3	1.1 +0.3	1.0	14. Kerala	136.7 -154.3	47 -0.3	29.5 +0.4	24.1 +0.4	85 0	6.1 +0.9	6.3							
7. Jammu and Kashmir	13.6 -1.0	93 -0.5	22.5 +0.6	8.5 +2	64 +2	41 -0.2	1.5 +0.2	2.1	Mean of India (Excluding Jammu & Kashmir and Himachal Pradesh).		108.3 +30.6	139 -0.8	31.3 +1.1	21.6 +7	76 63	3.4 +0.9	3.8						
8. Rajasthan	4.0 -4.7	46 -1.4	33.2 +1.0	19.6 +1.0	68 +17	44 +0.4	1.2 +0.4	1.9															
Sub-Division																							
1. Bay Islands	262.6 -55.1	83 +1.1	29.9 +0.8	24.0 +1	82 +0.8	89 +0.8	6.0 +0.8	5.6	Sub-Division—contd.		16. Madhya Pradesh (East)	142.1 +68.7	194 -0.8	29.5 +1.8	20.6 +8	80 70	4.2 +1.7	4.6					
2. Assam (Including Manipur, Tripura)	152.8 +30.7	125 +0.6	30.5 +1.5	23.0 0	84 +0.6	82 +0.6	5.0 +0.6	3.7	17. Gujarat	57.4 +25.3	180 -1.6	33.3 +1.5	21.9 +8	77 55	1.9 +0.2	2.1							
3. Sub-Himalayan West Bengal	168.2 +22.4	115 -0.4	30.4 +1.3	23.1 +1	80 +1.7	71 +1.7	3.7 +1.7	2.8	18. Saurashtra and Kutch	57.8 +45.2	459 -1.1	33.2 +1.2	22.9 +9	78 57	2.1 +0.3	2.8							
4. Gangetic West Bengal	118.5 +7.4	107 +0.3	31.8 +1.7	24.8 +1	78 +0.8	76 +0.8	3.8 +0.8	4.1	19. Konkan	40.4 -34.7	54 -0.2	31.0 +0.3	23.9 +0.3	79 75	2.9 -0.5	2.7							
5. Orissa	257.8 +115.3	181 -0.3	31.2 +1.3	24.4 +1.3	83 +5	77 +1.9	5.0 +1.9	5.6	20. Maharashtra	54.6 -21.6	72 +0.3	32.3 +0.3	19.7 +3	70 45	3.2 +0.1	3.7							
6. Chota Nagpur	91.2 +21.4	131 +0.1	30.6 +1.4	21.5 +6	77 +1.1	73 +1.1	3.7 +1.1	4.1	21. Vidarbha	53.7 +3.3	107 -0.8	31.8 +1.1	21.0 +7	71 55	3.7 +1.3	4.5							
7. Bihar	64.6 +3.2	105 +0.5	31.7 +1.5	23.3 +5	78 +0.6	76 +0.6	2.7 +0.6	3.1	22. Coastal Andhra Pradesh	423.3 +222.5	211 -1.1	30.9 +0.4	24.6 +6	84 79	5.9 +1.6	6.3							
8. Uttar Pradesh (East)	117.2 +73.1	266 -1.0	31.7 +1.8	21.3 +6	75 +1.0	66 +1.0	2.2 +1.0	3.0	23. Telangana	75.2 +15.4	126 -0.7	30.8 +1.0	21.3 +7	78 62	4.3 +1.2	4.3							
9. Uttar Pradesh (West)	66.7 +44.1	295 -1.7	30.8 +2.1	20.0 +12	74 +0.9	60 +0.9	1.7 +0.9	2.1	24. Rayalseema	190.2 +88.6	187 -1.1	31.9 +0.5	23.4 +7	80 63	5.2 +1.3	5.5							
10. Punjab (India) (Including Delhi)	31.3 +19.2	259 -1.2	32.5 +1.5	18.9 +1.5	71 +13	51 +0.3	1.1 +0.3	1.0	25. Madras State	182.7 -30.5	86 -0.3	31.4 +0.6	24.1 +1	80 72	5.9 +1.4	6.3							
11. Himachal Pradesh	52.5 ..	29.1 ..	14.7 ..	14.7 ..	91 ..	57 ..	2.7 ..	1.7	26. Coastal Mysore	87.8 -64.3	58 -1.1	29.3 +0.3	23.7 +4	88 82	5.9 +1.1	5.5							
12. Jammu and Kashmir	13.6 -1.0	93 -0.5	22.5 +0.6	8.5 +2	64 -0.2	41 -0.2	1.5 +0.2	2.1	27. Mysore (North)	106.3 +24.4	130 -0.1	31.0 +0.3	20.8 +1	73 53	4.9 +1.7	5.2							
13. Rajasthan (West)	0.8 -3.2	20 -0.9	34.7 +1.9	20.5 +17	69 +0.5	44 +0.5	1.1 +0.5	1.7	28. Mysore (South)	148.5 +2.2	102 -0.4	28.3 +0.5	19.8 +3	83 60	5.1 +0.2	5.9							
14. Rajasthan (East)	7.2 -6.2	54 -1.8	32.0 +0.3	18.8 +16	68 +0.3	44 +0.3	1.3 +0.3	2.0	29. Kerala	136.7 -154.3	47 -0.3	29.5 +0.4	24.1 0	85 78	6.1 +0.9	6.3							
15. Madhya Pradesh (West)	65.2 +34.6	213 -1.6	30.4 +1.2	19.3 +9	70 +1.0	53 +1.0	2.5 +1.0	3.2	30. Arabian Sea Islands	177.0 +11.7	107 +1.1	30.9 +0.9	25.6 +2	80 78	5.4 +0.9	6.0							

Note.—The entries in the second line for each division and sub-division indicate departures from normal.

†Data of Himachal Pradesh not included.

508 TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—OCTOBER, 1958 (ASVINA 9—KARTIKA 9, 1880 SAKA)

Division and station	Air temperature in °C								Rainfall in millimetres						No. of rainy days (2.5 mm. or more)		Wind speed, km. per hour		Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall	Lightning squall	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Bay Islands																													
Maya Bandar	28.0	..	29.4	11	24.4	..	22.2	19.25	123.5	190.4	..	42.4	21	13	..	10.3	4.5	..	15	0	0	1	0	0	0	0	0	0	
Long Island	30.1	..	31.2	23	24.5	..	22.8	15	273.5	409.6	..	122.0	23	16	..	1.7	0.9	..	20	0	0	4	0	0	0	0	0	0	
Port Blair	29.9	+1.1	31.1	23	24.0	+0.8	22.8	15	150.8	262.6	-55.1	37.1	15	16	-0.7	..	..	..	22	0	0	3	6	0	0	0	0	0
Car Nicobar	29.7	..	31.2	10	23.5	..	21.7	16	186.3	406.6	..	72.6	10	22	..	5.7	3.0	..	23	0	0	1	0	0	0	0	0	0	
Nancowry	27.7	..	30.1	24	24.2	..	23.2	4	168.1	356.6	..	54.5	4	20	..	8.5	5.7	..	24	0	0	0	1	0	0	0	0	0	
Kondul	28.6	..	30.0	24	24.2	..	22.8	26	170.8	439.8	..	72.6	3	23	..	6.2	4.5	..	25	0	0	0	0	0	0	0	0	0	
Assam (Including Manipur, Tripura)																													
Pasighat	28.0	..	34.6	6	21.8	..	18.8	31	298.7	669.4	..	119.4	4	16	..	7.3	9.0	..	16	0	0	4	0	0	0	0	0	0	
Digboi	29.5	..	33.1	8	21.9	..	18.3	31	63.2	249.6	..	36.2	10	12	..	..	..	..	15	0	0	0	0	0	0	0	0	0
Dibrugarh	29.2	+0.1	33.8	8	21.9	+1.1	19.4	30	38.8	338.6	+186.5	59.0	5	12	+3.4	2.4	1.9	+0.8	14	0	0	3	0	0	0	0	0	0	
Dibrugarh (Mohanbari Aerodrome)	28.8	..	32.6	8	21.7	..	18.8	30	39.5	329.4	..	60.2	4	12	..	4.8	3.0	..	16	0	0	7	2	0	0	0	0	0	
North Lakhimpur	29.1	..	32.8	8	21.4	..	17.9	31	75.4	396.3	..	77.4	3	14	..	7.3	6.1	..	15	0	0	3	0	0	0	0	0	0	
Sibsagar	29.8	+0.7	33.4	8	23.0	+1.6	20.1	31	42.2	9.0	+61.7	58.0	5	11	+3.1	4.2	3.2	+0.9	15	0	0	0	0	0	0	0	0	0	
Jorhat	30.1	..	32.5	8	22.7	..	19.7	31	50.1	161.1	..	40.9	1	8	..	..	..	..	14	0	1	6	1	0	0	0	0	0
Golaghat	30.2	..	33.3	1,8	22.8	..	19.9	30,31	125.0	189.0	..	37.0	4	11	..	..	..	..	11	0	0	0	0	0	0	0	0	0
Gohpur	30.9	..	34.3	1	21.9	..	16.8	29	..	260.0	..	86.1	2	11	..	..	..	..	12	0	0	0	0	0	0	0	0	0
Tezpur	31.1	+0.9	33.9	8	23.4	+1.6	20.6	28	12.9	63.2	-40.9	24.4	10	4	-2.3	5.7	4.4	+2.0	9	0	0	0	0	0	0	0	0	0	
Tezpur (P.B.O.)	30.4	..	32.9	8	23.1	..	19.5	28	9.5	65.1	..	26.2	10	4	..	4.9	2.8	..	8	0	0	5	0	0	0	0	0	0	
Majbat	..	..	..	..	..	..	..	..	1	84.0	..	44.6	10	6	..	6.4	4.0	..	9	0	0	0	0	0	0	0	0	0
Chaparmukh (R.)																													
Tangla	31.1	..	34.3	8	21.7	..	17.8	28	16.4	139.4	..	69.8	10	6	..	3.4	1.4	..	8	0	0	0	0	0	0	0	0	0	
Gauhati	30.8	+0.2	33.1	6,8	23.6	+1.9	19.6	28	23.4	38.6	-32.0	20.3	13	3	-1.2	0.6	1.1	-0.8	3	0	0	0	0	0	0	0	0	0	
Gauhati (Bhorjor Aerodrome)	30.2	..	32.4	8	22.9	..	18.4	28	38.7	59.4	..	25.0	13	5	..	6.3	3.8	..	7	0	0	6	1	0	0	0	0	0	
Rangiya	31.4	..	34.8	8	22.7	..	19.1	29	22.8	107.0	..	34.2	10	6	..	(b)	(b)	..	7	0	0	0	0	0	0	0	0	0	
Goalpara	31.8	..	34.4	25	22.7	..	17.3	28	44.2	147.0	..	75.6	12	4	..	(a)	(a)	..	7	0	0	0	0	0	0	0	0	0	
Dhubri	29.7	+0.6	32.7	1	23.9	+1.2	20.6	28	79.6	292.2	+167.7	148.8	12	5	0	5.5	4.6	-0.5	5	0	0	2	0	0	0	0	0	0	
Dhubri (Rupsi Aerodrome)	30.8	..	33.4	8	22.1	..	17.8	28	111.4	366.0	..	220.0	4	7	..	5.0	3.4	..	8	0	0	8	0	0	0	0	0	0	
Tura	29.4	..	31.8	8	21.7	..	16.4	28	100.5	238.6	..	65.7	12	6	..	5.0	5.9	..	8	0	0	0	0	0	0	0	0	0	
Agartala	31.0	..	33.6	7	23.1	..	17.8	28	136.7	220.8	..	66.2	24	9	..	6.3	4.7	..	12	0	0	10	0	0	0	0	1	0	
Kailashar (C.W.C.)	31.6	..	34.4	7	22.8	..	20.2	28,31	130.8	337.8	..	101.6	25	10	..	4.2	2.9	..	16	0	0	13	0	0	0	0	0	0	
Silchar	30.7	-0.6	34.1	7	23.9	+1.6	20.5	28	88.4	198.4	+14.3	52.2	25	10	+2.1	0.1	0	-1.6	13	0	0	0	0	0	0	0	0	0	
Silchar (Kunabhi gram Aerodrome)	31.5	..	36.2	7	22.7	..	19.3	31	79.0	228.1	..	61.0	25	12	..	5.1	5.4	..	15	0	0	7	0	0	0	0	0	0	
Imphal	28.4	..	31.1	7	18.0	..	12.8	31	19.6	73.2	..	53.4	25	3	..	6.4	4.0	..	10	0	0	1	0	0	0	0	0	0	
Haflong	27.4	..	30.2	7,8	19.7	..	17.6	31	112.5	226.3	..	80.7	25	9	..	9.8	8.5	..	13	0	0	0	0	0	0	0	0	0	
Lumding	31.6	+2.2	34.7	8	22.2	+1.1	18.8	31	33.6	84.8	-5.1	63.6	13	5	-0.9	1.6	0.7	..	10	0	0	0	0	0	0	0	0	0	
Sub-Himalayan West Bengal																													
Cooch Behar (C.W.O.)	30.5	..	32.6	9	22.1	..	17.8	28	42.3	247.0	+61.3	77.5	13	9	+2.8	5.0	2.7	..	9	0	0	8	2	0	0	0	0	0	
Jalpaiguri	29.1	-1.3	31.7	8	22.3	+1.0	16.9	29	70.4	184.0	+42.8	77.8	12	7	+1.5	5.7	4.2	+2.3	8	0	0	7	0	0	0	0	0	0	
Bagdogra	30.7	..	32.7	8	21.2	..	16.6	29	21.4	124.0	..	47.0	1	6	..	5.0	3.8	..	7	0	0	6	0	0	0	0	0	0	
Maidan	31.7	+0.5	34.0	8	24.0	+1.6	18.3	27	9.6	73.7	-36.8	39.0	11	5	+0.7	6.3	4.4	-0.1	7	0	0	7	0	0	0	0	0	0	
Gangetic West Bengal																													
Dum Dum	32.0	..	34.2	25	24.4	..	19.6	30	69.0	92.4	..	19.4	20	10	..	6.9	4.5	..	13	0	0	10	2	0	0	0	0	0	
Calcutta	32.5	+0.7	35.0	7	24.9	+1.7	19.9	30	59.7	71.8	-42.0	36.9	18	7	+0.8	5.9	3.6	+0.2	10	0	0	10	1	0	0	0	1	0	
Barrackpore	31.7	..	33.9	6	24.5	..	18.9	30	92.3	112.2	..	49.5	18	6	..	..	..	..	8	0	0	9	1	0	0	0	0	0
Saugor Island	30.4	0	32.4	7	26.2	+1.6	23.0	30	41.6	92.2	-112.8	17.9	14	10	+2.5	..	..	..	15	0	0	0	0	0	0	0	0	0
Sandheads	59.8	153.9	+36.3	67.9	18	8	+2.3	12	0	0	7	0	0	0	0	0	0
Contai	30.9	..	32.8	7,8	25.2	..	22.1	30	81.0	158.7	..	61.0	3	10	..	6.1	4.2	..</td											

(a) Mean of 30 days.

(b) Mean of 29 days

(B) Register not received.

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—OCTOBER, 1958 (ASVINA 9—KARTIKA 9, 1880 SAKA) 509

Division and station	Air temperature in °C								Rainfall in millimetres						No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour		Weather phenomena—No. of days with									
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0800–1700 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0800–1700 hours	24 hours	Departure from normal	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall	Line squall
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Gangetic West Bengal—contd.																												
Berhampore	32·8	+1·5	35·2	9	24·4	+1·1	20·1	28	28·2	169·9	+77·4	107·2	21	8	+3·5	1·3	0·7	-1·6	8	0	0	0	0	0	0	0	0	0
Orissa																												
Baripada	32·1	..	34·9	25	23·3	..	18·3	30	117·7	156·1	..	88·4	13	8	..	3·0	1·7	..	9	0	0	9	1	0	0	0	0	0
Balasore	31·2	-0·1	32·9	25	24·7	+1·8	19·8	30	51·8	106·1	-57·2	26·2	1	9	+2·6	8·0	4·3	+1·4	12	0	0	0	16	0	0	0	0	0
Chandbali (R)																												
Cuttack	31·9	-0·2	34·5	6	24·8	+1·2	21·1	30	85·6	206·0	+70·4	67·0	8	8	+1·7	5·7	4·3	+2·2	10	0	0	6	0	0	0	0	0	0
Bhubaneswar	31·1	..	33·3	5	24·2	..	20·5	30	122·8	294·9	..	86·2	7	11	..	10·5	7·4	..	13	0	0	10	0	0	0	0	1	0
Puri	31·3	-0·1	33·3	7	25·8	+0·8	23·3	30	81·0	336·0	+152·9	123·2	8	12	+4·7	15·1	13·8	+3·5	15	0	0	7	0	0	0	0	0	0
Gopalpur	30·6	-0·6	33·3	26	24·6	+0·9	21·6	30	239·6	609·9	+391·5	114·0	21	14	+7·1	15·0	12·3	+3·1	16	0	0	14	0	0	0	0	3	0
Koraput	26·3	..	28·9	6,27,28	19·1	..	15·0	31	98·8	253·6	..	98·3	21	11	..	..	..	..	12	0	0	0	0	0	0	0	0	0
Titilagarh	28·6	..	32·3	5,13	23·3	..	18·5	28	85·4	157·2	..	22·1	2	11	..	4·1	2·7	..	14	0	0	7	0	0	0	0	0	0
Bolangir	31·1	..	33·5	16	22·7	..	17·7	27	43·8	90·2	..	33·6	21	7	..	8·2	5·6	..	10	0	0	3	0	0	0	0	0	0
Angul	30·9	-0·5	33·6	4	23·5	+1·5	18·9	31	70·7	147·3	+47·2	36·2	8	11	+5·3	6·8	5·2	+0·2	13	0	0	8	4	0	0	0	0	0
Keonjhar	29·2	..	31·6	4,6	21·3	..	16·8	31	40·1	95·3	..	30·5	19	7	..	5·9	4·0	..	11	0	0	8	3	0	0	0	0	0
Sambalpur	31·3	-0·3	33·9	6	23·2	+1·3	17·8	27	68·7	141·4	+	0	27·0	20	13	+9·5	5·9	3·8	+0·1	16	0	0	7	0	0	0	0	0
Jharsuguda	31·5	..	34·4	4,5	22·5	..	18·1	28	73·7	108·3	..	39·4	25	9	..	7·9	5·8	..	11	0	0	6	0	0	0	0	0	0
Chota Nagpur																												
Jamshedpur	31·5	-0·6	33·9	5	23·5	+1·8	16·9	27	27·6	96·4	+28·8	23·4	13	7	+2·8	6·6	4·6	+1·2	9	0	0	8	0	0	0	0	0	0
Jamshedpur(P.B.O.)	31·1	..	33·3	5	22·7	..	16·1	27	31·0	97·0	..	20·2	10	9	..	2·8	1·7	..	11	0	0	9	0	0	0	0	0	0
Chaibasa	31·3	+0·1	33·9	5	22·9	+1·7	17·4	27	37·2	111·5	+37·1	29·6	8	8	+3·6	2·2	1·2	-0·7	10	0	0	4	0	0	0	0	0	0
Ranchi	29·1	+0·7	30·9	12	18·9	-0·1	14·3	31	4·4	69·8	-9·7	20·0	12	6	+1·2	(a) 6·5	(b) 6·4	+1·7	8	0	0	0	0	0	0	0	0	0
Ranchi (C.W.O.)	28·1	..	30·0	6	20·2	..	15·4	31	3·4	77·5	..	26·9	12	6	..	10·9	8·6	..	8	0	0	2	0	0	0	0	0	0
Daltonganj	31·6	-0·1	34·3	6	22·0	+2·3	15·8	27	66·8	138·7	+89·7	39·8	20	6	+2·8	5·0	3·0	-0·2	7	0	0	4	0	0	0	0	0	0
Hazaribagh	29·3	+0·6	31·8	8	20·0	+0·8	14·3	27	7·5	39·8	-38·9	10·8	11	5	+0·4	8·5	6·3	-0·6	9	0	0	3	1	0	0	0	0	0
Dhanbad	30·6	..	33·0	5	22·4	..	17·8	27	22·8	112·0	..	34·0	13	7	..	5·2	4·1	..	10	0	0	4	8	0	0	0	0	0
Bihar																												
Purnea	32·1	+1·0	34·1	4	22·6	+1·0	16·1	27	6·6	37·6	-44·2	20·1	11	3	-0·4	3·6	1·9	-0·2	3	0	0	3	0	0	0	0	0	0
Forbesganj	32·7	..	35·1	8	22·4	..	16·7	27	28·6	61·8	..	17·4	12	7	..	5·1	3·8	..	7	0	0	6	8	0	0	0	0	0
Darbhanga	31·8	+0·6	34·2	10	23·8	+1·8	18·3	27	18·5	75·0	+16·6	37·2	4	4	+1·5	4·2	2·9	+0·8	5	0	0	0	0	0	0	0	0	0
Motihari (R)																												
Muzaffarpur		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ghara		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Arrah		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Patna	31·5	+0·1	34·0	8	24·2	+1·5	18·5	27	49·2	63·2	+4·8	49·4	12	2	-0·9	5·7	5·3	+2·1	3	0	0	3	0	0	0	0	0	0
Patna (Aerodrome)	31·3	..	33·5	8	22·7	..	16·1	29	66·4	79·6	..	67·0	12	2	..	6·6	3·5	..	3	0	0	1	0	0	0	0	0	0
Dehri	31·1	..	33·3	4 days	23·0	..	18·7	27,31	22·0	52·6	+3·1	22·9	12	6	+3·4	4·9	3·6	..	7	0	0	4	0	0	0	0	0	0
Gaya	31·3	-0·1	33·8	8	22·8	+1·7	16·0	27	37·8	48·5	-0·3	39·2	12	2	-0·9	8·6	6·7	+1·9	5	0	0	2	0	0	0	0	0	0
Jamui	31·0	..	34·2	8	23·4	..	16·9	27	56·8	76·3	..	26·4	12	4	..	4·9	2·4	..	6	0	0	3	0	0	0	0	0	0
Dumka	32·4	+1·2	33·9	6	23·7	+2·2	17·4	27	13·2	183·9	+87·1	77·7	12	5	+0·4	..	..	..	5	0	0	0	0	0	0	0	0	0
Bhagalpur	31·9	..	35·1	8	23·4	..	18·2	27	21·8	93·8	..	41·6	11	5	..	5·2	3·7	..	6	0	0	12	0	0	0	0	0	0
Sabour	32·0	+0·8	34·5	8	23·2	+1·5	16·6	27	6·8	124·5	+44·7	47·4	11	5	+2·1	6·5	4·1	+0·1	7	0	0	9	0	0	0	0	0	0
Uttar Pradesh (East)																												
Gonda	31·4	-1·3	33·3	11	19·4	-0·3	13·3	27	6·1	76·8	+31·3	54·0	3	4	+2·3	3·2	2·5	-0·7	4	0	0	0	0	0	0	0	0	0
Nautanwa	27·5	..	30·7	9,31	22·4	..	17·5	27	45·4	283·8	..																	

Division and station	Air temperature in °C								Rainfall in millimetres						No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour		Weather phenomena—No. of days with								
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·3 mm. or more)	Snow or sleet	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall		
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1																											
Uttar Pradesh (East)—contd.																											
Lucknow (Amausi Aerodrome)	31·6	-1·4	33·8	9	20·8	+3·1	15·0	29	37·8	214·2	+181·7	191·4	3	3	+1·3	7·5	4·9	..	7	0	0	4	0	0	0	0	1
Hardoi	30·3	..	33·4	11	20·5	..	15·8	29	19·9	76·9	..	66·4	3	5	..	5·3	3·0	..	6	0	0	0	0	0	0	0	0
Lakhimpur Kheri	31·1	..	33·6	11	21·1	..	15·6	26	16·2	104·4	..	37·4	3	6	..	3·1	1·8	..	8	0	0	5	0	0	0	0	0
Bahraich	32·0	-0·3	34·4	11	21·6	+1·4	15·7	27	15·6	182·4	+142·3	135·6	3	2	+0·3	5·2	3·7	+1·4	4	0	0	0	0	0	0	0	0
Uttar Pradesh (West)																											
Orai	31·9	..	33·9	9	20·1	..	15·0	27,29	27·6	45·2	..	13·4	1·5	5	..	8·0	6·1	..	6	0	0	0	0	0	0	0	0
Jhansi	31·1	-2·8	33·1	20	21·8	+2·5	17·8	27	44·4	114·8	+89·7	81·4	2	4	+2·9	4·3	3·4	-0·5	5	0	0	0	0	0	0	0	0
Agra	31·2	-2·6	33·3	27	20·2	+1·8	14·7	29	0	34·6	+16·6	18·6	2	4	+3·2	3·8	2·4	-1·5	4	0	0	0	0	0	0	0	0
Agra (Aerodrome)	31·5	..	33·7	20	19·8	..	14·6	29	11·4	68·3	..	31·5	1	5	..	..	..	..	5	0	0	0	0	0	0	0	0
Mainpuri	32·5	-1·5	34·8	9	21·2	+2·9	15·7	27	2·0	5·6	-18·5	3·6	2	1	0	3·8	2·8	+1·0	2	0	0	0	0	0	0	0	0
Aligarh	31·1	-2·8	33·8	20	20·4	+1·6	15·6	29	0·4	81·2	+73·3	57·2	2	2	+1·7	7·5	4·8	-0·2	3	0	0	0	0	0	0	0	0
Bareilly	31·4	-0·7	33·9	10	20·7	+1·9	15·6	26	56·0	127·8	+95·5	70·2	1	3	+2·1	4·2	2·2	+0·6	5	0	0	2	0	0	0	0	0
Meerut	31·1	-1·4	33·6	15	19·5	+2·3	14·8	25	..	48·5	+27·9	31·2	2	2	+1·1	..	4·6	..	3	0	0	0	0	0	0	0	0
Najibabad	30·6	..	32·3	7,13,20	18·1	..	12·9	26	17·0	98·4	..	66·4	1	3	..	2·3	1·4	..	4	0	0	0	0	0	0	0	0
Roorkee	30·0	-1·2	32·2	8,9,10	18·7	+2·4	13·6	26	5·4	60·5	+39·2	40·4	1	2	+1·1	4·2	2·7	+0·8	4	0	0	0	0	0	0	0	0
Dehra Dun	27·7	-0·6	29·7	8,10	17·4	+1·7	13·4	21	32·1	60·9	+28·9	20·6	7	5	+3·4	3·7	3·3	+0·2	7	0	0	2	0	0	0	0	0
Punjab (India) (Including Delhi)																											
New Delhi	31·5	-1·8	34·0	20	20·0	+1·5	15·9	25	0	1·9	-8·3	1·0	3	0	-0·6	10·2	7·6	+1·8	2	0	0	1	0	0	0	0	0
Hissar	33·3	-1·5	36·1	20	17·9	+0·6	12·3	24	0	2·0	-13·5	2·0	20	0	-0·6	5·4	4·8	-0·3	1	0	0	0	0	0	0	0	0
Karnal	30·5	..	32·7	8	18·7	..	14·2	29	35·0	41·2	..	24·2	2	2	..	..	..	..	2	0	0	0	0	0	0	0	0
Patiala	31·7	..	33·9	14,15	18·2	..	13·3	28	30·0	38·4	+36·6	29·8	2	2	+1·7	9·0	6·2	..	3	0	0	1	0	0	0	0	0
Ambala	32·4	-0·8	34·0	9	18·6	+1·9	15·3	23	14·2	51·2	+29·1	37·8	2	2	+1·1	8·6	5·5	+2·4	3	0	0	0	0	0	0	0	0
Ambala (Aerodrome)	30·8	..	32·4	15	17·0	..	12·7	28	15·1	47·8	..	30·3	2	3	..	..	..	..	4	0	0	1	0	0	0	0	0
Chandigarh	31·6	..	34·1	8	17·8	..	13·9	16	8·8	44·8	..	33·4	2	2	..	..	..	..	3	0	0	0	0	0	0	0	0
Ludhiana	32·8	-0·7	35·1	8	19·3	+2·0	15·8	26	34·0	63·4	+52·5	35·5	2	2	+1·3	4·9	2·5	+0·9	2	0	0	0	0	0	0	0	0
Ferozepur	31·1	..	34·6	7	17·6	..	12·8	25,29	0	21·0	..	21·0	1	1	..	3·0	1·5	..	1	0	0	0	0	1	0	0	0
Amritsar	31·0	..	35·8	10	17·2	..	11·2	23	0	21·4	..	16·0	20	2	..	7·9	3·0	..	2	0	0	2	0	0	1	0	0
Pathankot	30·6	..	32·8	8,14	17·6	..	14·9	22	7·8	60·0	..	49·8	1	2	..	2·6	2·1	..	4	0	0	0	0	1	0	0	0
Pathankot (Aerodrome)	30·1	..	32·4	14	17·7	..	13·5	20	2·6	51·0	..	46·3	1	2	..	5·9	3·2	..	3	0	0	0	0	1	0	0	0
Himachal Pradesh																											
Bilaspur	29·4	..	31·4	9	15·7	..	11·2	21	11·6	54·2	..	45·0	2	3	..	4·1	2·5	..	3	0	0	0	10	0	0	0	0
Mandi	28·8	..	31·2	4	13·8	..	10·1	16	1·3	50·9	..	42·0	2	3	..	2·4	1·7	..	4	0	0	0	0	0	0	0	0
Jammu and Kashmir																											
Srinagar	21·6	-1·6	26·3	6	6·6	+1·8	3·3	22	1·5	6·1	-23·6	2·8	20,25	2	-0·8	5·7	4·7	+1·5	3	0	0	1	0	0	0	0	0
Gulmarg																											
Sonamarg*																											
Dras																											
Kargil																											
Leh	14·5	-0·1	18·1	5	-0·2	+0·6	-3·4	23	0·8	0·8	-1·7	0·8	2	0	-0·3	7·2	5·3	+2·2	1	0	0	0	0	0	0	0	0
Skardu (R)																											
Gurez (R)																											
Gilgit (R)																											
Misgar (R)																											
Jammu	31·5	+0·3	33·1	8	19·0	-0·6	15·9	22	..	47·4	+28·1	35·2	1	3	+1·9	..	..	..	3	0	0	1	0	0	0	0	0
Gund																											
Pandras																											
Panamik																											
Khangral																											
Digar																											
Khalatse																											
Mulbik (R)																											
Rajasthan (West)																											
Sri Ganganagar	33·9	-1·2	37·1	18	18·9	+3·5	14·2	23	0·6	0·6	-1·9	0·6	20	0	-0·3	3·1	2·1	-5·0	1	0	0	1	0	0	0	0	0
Churu	32·7	..	35·3	7	18·1	..	12·6	30,31	0	0·8	..	0·8	20	0	..	9·0	5·6	..	1	0	0	1	4	0	0	0	0

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—OCTOBER, 1958 (ASVINA 9—KARTIKA 9, 1880 SAKA) 511

Division and station	Air temperature in °C								Rainfall in millimetres						No. of rainy days (2-5 mm. or more)		Wind speed, km. per hour		Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.3 mm. or more)	Snow or sleet	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall	Line squall		
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
Rajasthan (West) —contd.																													
Bikaner . .	34.3	-1.7	36.6	6	19.1	0	13.8	30.31	0	1.0	-4.3	1.0	20	0	-0.4	5.8	4.3	-1.8	1	0	0	1	0	0	0	0	0	0	0
Jaisalmer . .	35.9	..	38.6	13	22.1	..	15.4	31	0	9.4	..	9.4	1	1	..	11.7	8.1	..	1	0	0	0	0	0	0	0	0	0	
Phalodi . .	34.4	..	37.2	4, 5	20.7	..	15.0	31	0	0	-1.8	0	..	0	-0.1	11.9	10.0	..	0	0	0	0	0	0	0	0	0	0	
Nagaur . .	33.2	..	35.3	13	18.9	..	11.1	27	5.8	4.5	0	0	1	0	0	0	0	0	0	0
Jodhpur . .	34.6	-0.7	36.8	19	20.6	+2.0	16.1	27.30	0	2.6	-5.5	2.6	21	1	+0.5	8.0	6.2	-1.5	1	0	0	2	0	0	0	0	0	0	
Barmer . .	36.1	-0.1	38.1	13	23.5	+2.2	18.0	29	0	0	-2.5	0	..	0	-0.5	9.3	8.3	+0.7	0	0	0	2	0	0	0	0	0	0	
Rajasthan (East)																													
Pilani . .	32.9	..	35.0	13, 18	17.3	..	12.7	4days	1.8	3.6	..	1.8	4.20	0	..	10.1	8.2	..	2	0	0	0	0	0	0	0	0	0	
Alwar . .	31.8	..	34.5	20	18.8	..	13.3	25	40.8	48.2	..	30.4	4	3	..	4.9	2.8	..	3	0	0	1	0	0	0	0	0	0	
Sikar . .	32.2	..	34.7	10	16.9	..	11.3	31	0	7.1	..	7.1	20	1	..	9.5	5.4	..	1	0	0	0	0	0	0	0	0	0	
Jaipur . .	32.7	-1.8	34.6	19	18.5	+0.6	13.3	24	0	0	-12.2	0	..	0	-0.7	7.6	4.5	-0.6	0	0	0	1	1	0	0	0	0	0	
Jaipur (Sanganer Aerodrome)	31.9	..	34.0	20	18.4	..	13.7	28	0	0	..	0	..	9	..	..	..	0	0	0	1	1	0	0	0	0	0	0
Dholpur . .	31.6	..	34.1	28, 29	19.8	..	12.9	28	29.8	79.4	..	47.0	3	5	..	3.9	2.7	..	6	0	0	1	0	0	0	0	0	0	
Ajmer . .	31.4	-1.7	33.5	19	17.8	-0.3	12.2	27	0	0	-9.7	0	..	0	-0.7	7.6	4.4	+1.0	0	0	0	1	0	0	0	0	0	0	
Kotah . .	32.8	-2.0	35.6	20	21.0	-0.3	16.7	31	0.6	0.6	-15.9	0.6	9	0	-1.0	5.8	4.2	+1.8	1	0	0	1	0	0	0	0	0	0	
Chambal . .	32.3	..	34.1	20	17.3	..	10.7	28	4.0	4.0	..	4.0	4	1	..	7.6	4.7	..	1	0	0	0	1	0	0	0	0	0	
Jhalawar . .	32.2	-1.1	34.3	20	19.2	+1.4	13.3	28	1.4	1.4	-12.6	1.4	4	0	-1.5	6.1	3.0	+0.4	1	0	0	0	0	0	0	0	0	0	
Udaipur . .	30.8	-2.4	32.3	5	17.6	0	12.1	31	29.2	33.8	+19.3	20.4	16	2	+0.9	3.2	1.6	..	5	0	0	3	0	0	0	0	0	0	
Erinpura (Jawai Dam) . .	33.4	..	35.1	13	21.7	..	16.7	23.29	0	29.2	..	16.0	..	2	..	4.4	5.5	..	2	0	0	0	0	0	0	0	0	0	
Madhya Pradesh (West)																													
Gwalior (P.B.O.) . .	31.1	-2.4	32.9	15	19.2	+1.3	13.4	29	11.1	80.3	+71.9	36.0	3	5	+4.4	6.8	3.6	..	5	0	0	4	0	0	0	0	0	0	
Sheopur Kalan . .	32.0	..	34.0	20	18.9	..	12.8	30	0	0	..	0	..	0	..	7.3	5.0	..	0	0	0	0	0	0	0	0	0	0	
Guna . .	29.9	-2.1	31.9	20	17.9	+1.1	12.3	30.31	3.1	3.1	-23.6	1.5	12	0	-1.6	10.3	5.4	..	3	0	0	0	1	0	0	0	0	0	
Rajgarh . .	31.9	..	34.9	27	18.0	..	11.8	29	10.5	10.5	..	10.5	12	1	..	9.8	5.0	..	1	0	0	0	0	0	0	0	0	0	
Neemuch . .	31.2	-1.6	32.2	6	19.1	+1.0	14.5	31	38.5	38.5	+22.8	19.4	12	2	+1.1	8.0	5.8	-0.5	2	0	0	0	0	0	0	0	0	0	
Ratlam . .	31.5	..	33.3	19, 20	19.3	..	15.9	28.31	58.5	73.3	..	30.7	12	4	..	7.0	4.6	..	4	0	0	0	0	0	0	0	0	0	
Alirajpur . .	32.2	..	34.1	7	19.6	..	14.2	30	7.4	84.5	..	63.5	12	4	..	6.5	4.1	..	4	0	0	0	0	0	0	0	0	0	
Indore . .	30.5	-1.0	31.7	11	18.0	+1.2	13.2	30	0.5	20.0	-10.7	18.0	11	1	-1.0	12.8	9.2	..	4	0	0	2	1	0	0	0	0	0	
Bhopal (Bairagarh)	30.2	-0.9	31.5	8, 15	18.6	+0.8	13.8	28	9.6	14.4	-27.8	6.6	12	3	+0.6	11.4	6.3	+1.0	3	0	0	2	0	0	0	0	0	0	
Khandwa . .	31.9	-1.7	33.1	4	19.5	+0.6	13.8	29.31	5.2	37.8	+2.5	32.6	11	2	0	8.8	6.5	+2.3	3	0	0	0	0	0	0	0	0	0	
Hoshangabad . .	31.0	-1.1	33.3	15	..	..	..	..	28.4	35.9	+3.4	12.8	8	4	+2.0	4.3	2.5	+0.4	7	0	0	1	0	0	0	0	0	0
Betul . .	28.3	..	30.3	5, 8	17.7	..	11.6	28	7.8	28.8	..	16.8	11	3	..	8.6	4.6	..	4	0	0	0	1	0	0	0	0	0	
Chhindwara . .	27.5	..	30.5	5	18.1	..	12.3	26.28	35.3	55.3	..	15.5	23	6	..	9.0	5.6	..	8	0	0	1	0	0	0	0	0	0	
Seoni . .	28.8	-1.4	31.0	5	19.3	+1.5	15.3	28.31	40.5	95.1	+37.4	41.6	2	4	+0.9	7.8	5.6	+1.7	10	0	0	4	0	0	0	0	0	0	
Sagar . .	28.5	-2.7	30.4	39	19.1	+0.3	16.0	8	197.4	229.4	+201.7	198.2	2	6	+4.1	7.6	5.5	..	6	0	0	3	0	0	0	0	0	0	
Nowrang . .	31.3	-1.3	33.4	9	18.9	+0.7	13.1	28	78.8	97.4	+68.7	51.2	3	5	+3.5	5.7	3.0	+1.1	6	0	0	4	1	0	0	0	0	0	
Madhya Pradesh (East)																													
Sutna . .	30.4	-0.9	31.6	24	20.7	+1.9	14.8	26	50.2	63.7	+14.7	47.4	12	3	+0.8	5.9	3.2	-0.2	4	0	0	2	0	0	0	0	0	0	
Sidhi . .	31.1	..	32.7	8	20.3	..	14.1	29	88.4	139.8	..	69.6	11	5	..	6.7	3.9	..	7	0	0	2	0	0	0	0	0	0	
Umaria . .	29.6	-0.8	31.4	8	19.4	+2.1	13.1	26	114.3	141.7	+79.0	64.6	11	7	+4.3	5.2	2.9	0	10	0	0	1	0	0	0	0	0	0	
Jabalpur . .	29.9	-1.1	32.1	15	20.1	+2.6	14.8	26	33.8	127.2	+79.5	54.8	1	7	+4.7	5.9	3.6	+1.3	9	0	0	4	2	0	0	0	0	0	
Mandla . .	29.5	..	31.7	5	18.7	..	12.0	26	50.6	220.2	..	58.8	23</td																

512 TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—OCTOBER, 1958 (ASVINA 9—KARTIKA 9, 1880 SARA)

Division and station	Air temperature in °C								Rainfall in millimetres						No. of rainy days (2.5 mm. or more)		Wind speed, km. per hour		Weather phenomena—No. of days with												
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.9 mm. or more)	Snow or sleet	Hail	Thunder head	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29			
Saurashtra and Kutch																															
Naliya . .	31.9	..	35.7	10	21.3	..	16.1	28,31	4.8	11.6	..	7.4	12	2	..	14.0	9.2	..	3	0	0	3	19	0	0	0	0	0	0		
Bhuj (P.B.O.) .	33.8	-1.8	35.8	10	22.9	+1.5	18.4	31	4.7	11.8	+3.4	4.8	13	3	+2.5	9.5	6.8	-0.4	5	0	0	4	0	0	0	0	0	0	0		
Bhuj (Aerodrome) .	33.5	..	35.7	10	22.1	..	16.9	31	6.2	19.6	..	8.4	17	3	..	11.1	8.0	..	5	0	0	3	0	0	0	0	0	0	0		
Kandla . .	33.8	..	35.8	8.9	24.4	..	21.7	31	19.1	38.4	..	19.1	13	4	..	13.8	12.6	..	4	0	0	3	0	0	0	0	0	0	0		
Mandvi . .	32.0	..	36.1	10	23.8	..	19.4	28	6.3	24.2	..	11.3	12	3	..	19.3	16.8	..	3	0	0	0	0	0	0	0	0	0	0		
Dwarka . .	30.5	-0.2	35.6	10	24.7	+0.5	21.8	30	26.6	42.1	+35.8	25.8	12	3	+2.7	15.4	10.6	-0.5	3	0	0	0	0	0	0	0	0	0	0		
Porbander . .	32.3	..	37.3	9	23.9	..	20.7	30	2.8	63.2	..	50.6	10	4	..	16.2	12.7	..	4	0	0	0	0	0	0	0	0	0	0		
Porbander (Aero-drome)	13.1	0	0	2	0	0	0	0	0	0	0	0	
Jamnagar . .	34.0	-0.6	36.7	9,10,11	22.5	+1.5	17.1	30	54.8	60.4	+52.5	22.3	11	3	+2.5	4	0	0	3	1	0	0	0	0	0	0	0	
Rajkot (Aero-drome) .	33.8	-1.6	36.1	9	21.5	+1.1	17.0	28	36.6	42.9	+28.4	19.4	12	4	+2.9	14.7	11.1	+4.3	4	0	0	4	2	0	0	0	0	0	0		
Surendranagar .	34.3	..	36.2	6	23.4	..	18.7	31	6.4	44.4	..	40.8	11	1	..	8.7	7.5	..	4	0	0	0	0	0	0	0	0	0	0		
Bhavnagar . .	34.0	-1.4	36.4	7	22.8	+1.3	17.9	30	28.8	65.5	+42.6	30.6	13	3	+2.1	8.4	6.2	+0.7	3	0	0	1	0	0	0	0	0	0	0		
Bhavnagar (Aero-drome) .	33.6	..	36.4	7	23.3	..	18.3	31	34.8	76.6	..	36.8	13	3	..	16.3	12.8	..	3	0	0	1	0	0	0	0	0	0	0		
Mahuva . .	32.9	..	35.8	7	22.4	..	18.3	28	6.4	23.8	..	14.0	11	3	..	12.7	7.9	..	4	0	0	0	0	0	0	0	0	0	0		
Keshod	10.9	0	0	1	5	0	0	0	0	0	0	0	0	0
Veraval . .	31.7	..	35.9	9	22.9	..	19.5	26	48.8	124.0	+108.3	40.5	12	4	+3.2	15.9	12.6	..	4	0	0	1	1	0	0	0	0	0	0		
Konkan																															
Dahanu . .	31.4	+0.1	34.6	10	23.2	0	19.6	30	2.3	11.2	-10.6	5.0	18	2	+0.2	(b)	(c)	..	4	0	0	0	0	0	0	0	0	0	0		
Bombay (Colaba) .	31.9	+0.3	35.6	30	24.6	+0.4	22.3	31	0	1.8	-62.7	1.0	10	0	-3.1	11.7	9.6	-0.2	3	0	0	2	0	0	0	0	0	0	0		
Bombay (Santa-cruz Aerodrome) .	32.2	+0.4	35.6	28	23.1	+1.0	19.2	31	0.4	9.1	-55.4	4.8	14	1	-2.1	13.1	9.1	..	5	0	0	1	0	0	0	0	0	0	0		
Alibag . .	30.7	-0.7	35.1	31	23.6	0	20.5	31	..	32.4	-95.4	26.8	5	2	-3.1	..	9.4	+1.0	3	0	0	3	0	0	0	0	0	0	0		
Harnai . .	29.7	-0.7	33.3	8	24.7	+0.9	22.8	12	7.2	21.2	-43.6	9.5	10	3	+0.6	14.1	10.7	+0.7	4	0	0	3	0	0	0	0	0	0	0		
Ratnagiri . .	30.7	..	34.2	28	23.5	..	20.3	30	7.4	78.0	-32.0	26.0	8	4	-1.4	..	5	0	0	1	0	0	0	0	0	0	0	0			
Devgad . .	30.1	-0.6	33.2	31	24.0	-0.4	21.5	30	0	129.4	+57.0	56.6	10	5	+0.2	15.8	12.8	+3.1	5	0	0	3	0	0	0	0	0	0	0		
Vengurla . .	31.0	..	34.4	29	23.1	..	19.7	29	29.1	67.5	..	25.6	8	4	..	(f)	(g)	..	7	0	0	5	1	0	0	0	0	0	0		
Maharashtra																															
Nandurbar . .	34.4	..	36.1	6	21.8	..	16.2	31	2.0	20.8	..	10.4	13	2	..	6.0	4.5	..	5	0	0	0	0	0	0	0	0	0	0		
Jalgaon . .	33.6	..	35.6	5	19.3	..	13.4	31	13.0	50.8	+14.2	37.8	11	3	+1.2	11.1	8.3	..	3	0	0	0	0	0	0	0	0	0	0		
Malegaon . .	32.7	-0.5	34.6	6	19.2	+0.4	13.3	30	4.1	34.8	-8.6	17.3	14	4	+1.3	9.2	6.6	+0.3	7	0	0	0	0	0	0	0	0	0	0		
Deolali . .	31.1	..	32.9	6	18.1	..	11.5	30	23.4	28.0	..	21.1	11	3	..	8.8	5.5	..	3	0	0	3	1	0	0	0	0	0	0		
Aurangabad . .	32.2	+0.1	36.7	22	19.5	+0.1	15.5	23	12.0	17.2	-28.3	10.5	9	3	+0.2	11.1	9.5	+1.6	3	0	0	2	0	0	0	0	0	0	0		
Aurangabad (Chikalthana Aerodrome) .	31.7	..	33.4	5	18.0	..	12.6	28	15.5	16.0	..	14.0	9	1	..	13.9	9.6	..	4	0	0	2	1	0	0	0	0	0	0		
Khandala . .	..	..	..	..	..	..	..	..	7.9	-172.2	3.3	10	1	-5.3	..	..	..	4	..	..	..	..	..	..	..	..	..	..	..
Ahmednagar . .	31.8	+0.4	34.1	15,7	19.1	+0.4	14.4	23	1.2	80.3	+25.2	53.6	14	3	-0.4	9.5	7.8	+0.1	3	0	0	0	0	0	0	0	0	0	0		
Parbhani . .	32.9	..	34.6	6,13	19.2	..	14.4	31	24.2	33.8	-19.3	20.4	10	3	0	11.2	7.9	..	5	0	0	3	0	0	0	0	0	0	0		
Poona . .	32.3	+0.4	34.9	5	20.0	+0.9	15.3	30	8.6	73.8	-16.1	47.8	5	4	-1.1	5.1	3.3	-3.1	5	0	0	3	4	0	0	0	0	0	0		
Poona (Lohagaon Aerodrome) .	31.7	..	34.6	5	19.2	..	15.1	30	12.1	79.1	..	44.2	5	5	..	..	..	..	8	0	0	3	4	0	0	0	0	0	0
Baramati . .	32.7	..	36.0	5	19.7	..	15.2	30	0	67.2	..	42.2	10	6	..	9.6	8.4	..	7	0	0	1	0	0	0	0	0	0	0		
Jeur . .	32.6	..	34.7	26	19.3	..	14.7	29	12.3	39.5	..	19.1	14	4	..	10.8	8.0	..	5	0	0	0	0	0	0	0	0	0	0		
Sholapur . .	32.5	-0.1	36.7	2	20.8	+0.4	17.6	28	6.5	167.2	+90.0	83.4	9	3	-1.3	11.6	8.8	-0.7	3	0	0	2	0	0	0	0	0	0	0		
Miraj . .	32.1	+1.6	3																												

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—OCTOBER, 1958 (ASVINA 9—KARTIKA 9, 1880 SAKA) 513

Division and station	Air temperature in °C								Rainfall in millimetres						No. of rainy days (2.5 mm. or more)	Wind speed, km. per hour	Weather phenomena—No. of days with												
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.3 mm. or more)	Snow or sleet	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Coastal Andhra Pradesh.																													
Nellore .	31.6	-1.0	34.9	3	25.1	+0.7	22.3	17	122.5	317.3	+14.5	67.4	17	10	+1.1	8.1	5.6	+0.9	12	0	0	7	0	0	0	0	0	0	
Ongole .	29.4	..	32.3	27	24.5	..	21.0	18	17.4	193.5	..	49.0	17	13	..	1.6	1.4	..	16	0	0	0	1	0	0	0	0	0	
Rentachintala	32.1	-1.0	34.2	3,4	23.0	-0.2	19.5	27,28	13.8	214.0	+87.3	54.2	1	9	+1.4	5.4	3.1	-3.7	10	0	0	3	0	0	0	0	0	0	
Gannavaram	30.7	..	33.4	13,26	24.6	..	23.3	1,14,28	91.8	180.2	..	44.4	8	12	..	12.4	9.5	..	17	0	0	7	0	0	0	0	0	0	
Masulipatam	30.3	-1.1	33.3	26	25.1	+0.7	23.5	1	97.2	333.3	+114.9	50.4	13	15	+6.5	10.7	8.5	+2.7	18	0	0	17	0	0	0	0	0	0	
Nidadavolu	23.2	..	31.9	5	24.4	..	22.8	31	89.6	271.0	..	68.8	8	18	..	8.2	6.0	..	23	0	0	17	0	0	0	0	1	0	
Kakinada .	30.1	-1.0	33.4	5	24.8	+0.4	22.6	31	309.8	631.4	+415.0	221.5	20	13	+4.4	13.2	(h)	(h)	19	0	0	6	0	0	0	0	0	0	
Vizianapatnam .	31.4	-0.9	33.8	12	24.7	+0.3	23.3	30,31	137.0	606.4	12.5	(g)	(h)	0	0	12	0	0	0	0	3	0
Celingapatam .	30.1	-1.1	32.8	14	25.0	+0.7	23.9	9	346.5	620.7	+420.8	90.0	20	14	+6.7	15.5	14.4	..	14	0	0	0	0	0	0	0	0	0	
Telangana																													
Ramagundam .	32.1	..	35.1	5	23.3	..	17.9	27	53.3	118.1	..	33.0	11	9	..	9.4	5.2	..	9	0	0	1	0	0	0	0	0	0	
Nizamabad .	31.3	-0.5	32.6	1,2	20.9	+0.9	15.6	27	15.0	93.2	+40.4	68.6	3	3	0	6.1	4.5	+0.8	3	0	0	0	0	0	0	0	0	0	
Mahbubnagar .	30.9	..	33.2	25	21.8	..	17.3	31	5.1	24.5	..	7.9	9	5	..	12.5	9.1	..	5	0	0	0	0	0	0	0	0	0	
Hyderabad (Legumpet Aerodrome).	29.7	-0.9	31.4	7	20.4	+1.1	14.3	27	21.5	87.9	+25.7	39.6	14	5	+0.7	14.2	8.8	+0.6	6	0	0	3	0	0	0	0	0	0	
Hakimpet .	29.3	..	31.6	6	20.8	..	17.1	15,27	15.2	101.2	..	48.2	14	7	..	..	..	..	7	0	0	1	0	0	0	0	0	0
Hanamkonda .	31.3	-0.6	34.4	13	22.7	+1.1	18.2	28	14.8	44.4	-21.9	18.4	20	6	+1.9	11.3	7.8	+3.0	8	0	0	3	0	0	0	0	0	0	
Bhadrachallam	32.4	..	35.4	6	23.8	..	20.1	28	14.9	209.3	..	59.0	20	7	..	6.7	4.5	..	10	0	0	4	0	0	0	0	0	0	
Khammameth	31.7	..	34.6	13	23.9	..	19.7	28	40.9	117.2	..	43.7	19	7	..	6.0	4.0	..	9	0	0	4	0	0	0	0	0	0	
Rayalaseema																													
Arogavaram	28.1	..	32.7	3	20.6	..	19.1	31	63.0	159.9	..	52.2	8	6	..	9.7	6.6	..	9	0	0	4	0	0	0	0	0	0	
Gudlapah .	31.4	-1.9	35.0	5	23.9	+0.3	21.4	17	207.0	443.0	+319.6	270.4	8	9	+2.2	4.4	3.4	-2.6	12	0	0	2	0	0	0	0	0	0	
Amantapur .	31.5	..	33.6	25	22.7	..	19.7	27	35.6	77.6	-22.5	47.8	8	3	-2.5	9.1	6.8	..	6	0	0	8	0	0	0	0	0	0	
Kurnool .	32.3	-0.3	34.2	25,26	22.9	+0.8	17.9	27,28	20.2	50.1	-31.2	25.0	1	3	-1.9	9.0	5.6	+0.6	6	0	0	0	0	0	0	0	0	0	
Madras State																													
Palayamcottai	30.1	..	35.3	3	25.8	..	23.1	29	79.4	113.6	-65.5	22.4	30	8	-0.6	12.6	10.3	..	10	0	0	4	0	0	0	0	0	0	
Tuticorin .	32.5	..	36.7	20	25.9	..	24.1	10	19.0	23.0	..	10.0	6	3	..	15.7	11.1	..	5	0	0	1	0	0	0	0	0	0	
Pamban .	29.3	-1.8	30.7	4	25.7	+0.3	23.5	6	16.3	125.7	-91.0	60.6	31	6	-3.4	8.9	8.1	-3.5	7	0	0	0	0	0	0	0	0	0	
Mathurai .	33.7	+1.4	36.9	3	24.3	+0.6	20.7	12	2.6	95.1	-93.4	58.0	12	4	-6.2	5.6	3.9	-0.4	11	0	0	0	0	0	0	0	0	0	
Mathurai (Aero-drome)*	31.8	+0.3	34.5	23	25.1	+0.4	22.1	7	92.8	160.3	-108.4	40.6	5	7	-3.2	10.4	8.6	+1.7	1	0	0	4	0	0	0	0	0	0	
Nagapattinam	32.7	+0.3	35.5	3	24.4	+1.1	22.4	16,23	40.4	132.5	-50.6	33.0	25	5	-2.5	14.8	11.9	+2.7	11	0	0	11	0	0	0	0	0	0	
Trichirappalli	32.7	+0.3	35.5	3	24.4	+1.1	22.4	10	10.8	107.2	-53.1	27.0	27	8	-1.7	11.1	9.5	+5.2	16	0	0	4	0	0	0	0	0	0	
Coimbatore	31.5	..	33.7	26	29.9	..	20.6	18	8.4	70.4	..	12.2	15	7	..	20.3	18.4	..	14	0	0	8	0	0	0	0	0	0	
Coimbatore (Peela-medu Aerodrome)	31.5	..	33.7	26	29.9	..	20.6	18	8.4	70.4	..	12.2	15	7	..	20.3	18.4	..	14	0	0	8	0	0	0	0	0	0	
Salem .	31.7	-0.4	35.9	25	22.6	+0.4	19.9	17	5.2	138.4	-25.2	45.6	7	7	-2.7	7.1	5.5	+1.6	14	0	0	6	0	0	0	0	0	0	
Kallakurichi .	32.7	..	36.3	2	24.2	..	21.1	17	22.4	116.0	..	31.7	7	8	..	6.6	5.1	..	14	0	0	7	0	0	0	0	0	0	
Cuddalore .	31.3	-0.1	34.3	2	24.6	+0.6	21.2	17	35.4	294.6	+1.7	101.9	7	10	-0.8	6.0	4.9	-0.1	12	0	0	4	0	0	0	0	0	0	
Triupattur†	28.9	21.3	..	19.7	17,18	30	31.2	3.9	2.3	0	0	1	0	0	0	0	0	0	0
Vellore .	31.6	0	34.9	2	23.7	+1.0	21.2	18	59.4	229.1	+56.4	118.2	7	10	+0.8	7.8	5.9	+2.7	13	0	0	8	0	0	0	0	0	0	
Tambaram (Aero-drome)	31.5	..	36.1	2	24.5	..	21.1	17	159.4	416.1	..	168.9	7	12	..	..	..	..	16	0	9	0	0	0	0	0	0	0
Madras .	31.1	-1.2	35.0	3	24.6	+0.7	21.2	17	188.2	430.4	+124.6	143.9	7	11	+0.3	12.9	9.5	-1.3	16	0	0	11	0	0	0	0	2	0	
Madras (Nungambakkam).	30.6	..	33.3	24,26	24.7	..	21.																						

514 TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—OCTOBER 1958 (ASVINA 9—KARTIKA 9, 1880 SAKA)

Division and station	Air temperature in °C									Rainfall in millimetres						No. of rainy days, (2·5 mm. or more)		Wind speed, km. per hour		Weather phenomena—No. of days with									
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during October-1950 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·3 mm. or more)	Snow or sleet	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Lightning			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Mysore (South)																													
Bellary . .	31·5	-0·6	34·1	26	23·1	+1·3	20·0	11	61·4	103·2	-2·5	47·4	14	4	-1·9	8·9	7·1	+2·1	5	0	0	0	0	0	0	0	0	0	
Chitaldrug . .	28·9	-0·7	31·2	26	20·5	+0·4	17·9	3	42·0	145·0	+24·1	62·2	8	4	-2·4	7·2	6·5	+0·5	6	0	0	0	0	0	0	0	0	0	
Shimoga . .	29·3	..	31·7	30	20·2	..	16·2	28	37·1	197·7	..	64·4	5	6	..	6·3	4·0	..	10	0	0	0	3	0	0	0	0	0	
Balachannur . .	26·2	+0·1	28·4	23,27,	17·3	-0·7	15·8	24	..	137·5	-61·4	66·0	8	7	-4·4	..	..	..	10	0	0	0	0	0	0	0	0	0
Hassan . .	27·4	-0·5	29·8	26	18·8	+0·6	15·9	28	65·0	205·8	+51·6	163·2	8	3	-6·1	8·9	7·2	+1·9	9	0	0	0	4	5	0	0	0	0	
Mysore . .	28·5	-0·5	31·1	23	19·6	+0·2	17·2	2	39·8	132·5	-16·8	37·4	8	11	+2·4	9·6	7·5	+0·1	14	0	0	0	2	0	0	0	0	0	
Bangalore (Central Observatory)	27·3	-0·3	30·3	3,25, 26	19·3	+1·0	17·8	17	36·3	167·3	+18·2	46·4	4	7	-1·5	11·0	8·4	+1·8	10	0	0	0	3	4	0	0	0	1	
Bangalore (Aero-drome),	28·2	..	32·1	25	19·6	..	18·1	10	45·0	148·5	..	38·0	4	6	..	..	..	..	9	0	0	0	1	4	0	0	0	1
Kerala																													
Kozhikode . .	30·0	-0·2	31·4	15	24·3	+0·5	22·7	8	16·1	40·5	-220·4	12·2	9	4	-7·2	11·4	9·8	+2·7	7	0	0	7	3	0	0	0	0	0	
Palghat . .	30·7	..	33·4	29,30	23·6	..	22·2	28	66·8	175·2	..	37·9	18	14	..	11·3	9·5	..	20	0	0	11	0	0	0	0	0	0	
Fort Cochin . .	28·1	-1·0	30·2	10,11	24·5	+0·4	22·9	9	62·5	145·0	-194·6	35·7	9	10	-4·2	10·3	7·5	+1·5	19	0	0	4	0	0	0	0	0	0	
Cochin (Naval Air Station),	29·7	..	31·4	29	24·1	..	23·2	9	65·4	144·5	..	36·8	9	10	..	8·3	4·6	..	18	0	0	8	0	0	0	0	0	2	
Alleppey . .	29·8	..	31·6	4	23·9	..	22·8	8,13	47·6	247·0	..	87·0	7	16	..	14·4	9·6	..	19	0	0	5	0	0	0	0	0	0	
Punalur . .	31·4	..	34·3	3,29	22·8	..	21·2	1,3	132·3	398·6	..	74·4	7	15	..	6·2	3·4	..	15	0	0	0	0	0	0	0	0	0	
Trivandrum . .	30·4	+0·4	32·7	27	23·6	+0·2	22·3	9	4·1	224·5	-48·0	89·4	7	10	-2·2	13·0	8·2	+2·2	14	0	0	6	0	0	0	0	0	0	
Trivandrum (Aero-drome)	29·8	..	30·9	1,2,3	24·1	..	22·5	12	..	184·5	..	57·4	7	9	..	..	7·1	..	15	0	0	6	0	0	0	0	0	0
Arabian Sea Islands Minicoy*																													
Amini Divi* Hill Stations excluding Kashmir Walong (R).																													
Kohima . .	23·0	..	26·7	3	16·8	..	12·2	31	22·5	60·6	..	25·4	25	6	..	..	..	..	11	0	0	0	0	0	0	0	0	0
Aijal . .	24·9	..	29·3	7	19·1	..	16·0	30	117·6	289·2	..	144·8	25	14	..	5·9	6·2	..	14	0	0	0	0	0	0	0	0	0	
Shillong . .	22·7	+1·0	25·6	23	13·9	+1·2	8·6	28	90·6	103·6	-67·1	42·2	21	6	-4·0	1·3	1·3	-0·6	14	0	0	8	0	0	0	0	0	0	
Cherrapunji . .	22·7	+0·5	25·6	23	17·1	+1·3	13·3	27	101·0	338·4	-154·9	138·0	13	9	0·3	10·3	8·5	+3·5	11	0	0	0	0	0	0	0	0	0	
Mawsynram . .	..	..	..	..	..	..	..	..	..	460·6	..	160·5	12	7	..	..	..	..	7	..	..	..	..	..	..	..	..	..
Darjiling . . (Raj Bhawan)	19·3	+1·5	21·9	10	12·4	+1·3	9·8	28	3·1	5·7	-131·7	1·8	4	0	-4·8	2·0	2·2	+0·3	4	0	0	0	14	0	0	0	0	0	
Kalimpong . .	24·2	+2·0	26·4	25	17·5	+1·8	15·1	3	0	30·5	-96·8	20·3	5	2	-2·8	6·2	4·7	-5·6	2	0	0	0	0	0	0	0	0	0	
Katmandu . . (Hydromet.) (Mukteswar (Kumaon))	26·1	..	28·0	27	14·6	..	9·9	30	36·3	54·3	..	46·2	4	2	..	2·4	1·2	..	3	0	0	1	15	0	0	0	0	0	
Nainital . .	19·4	..	22·1	23	10·7	..	7·8	18·26	63·8	181·3	..	106·0	1	3	..	9·3	6·4	..	7	0	0	0	0	0	0	0	0	0	
Joshimath . .	21·0	..	23·6	11	11·2	..	8·8	19	16·7	44·5	..	15·8	3	4	..	5·6	6·6	..	7	0	0	3	0	0	0	0	0	0	
Badrinath . .	12·9	..	15·0	2,7	7·7	..	6·7	21	..	41·7	..	22·2	3	2	..	..	..	..	3	0	0	0	0	0	0	0	0	0
Lokpal . .	4·7	..	6·1	13	-2·3	..	-6·3	31	..	53·8	..	10·0	1,21	7	..	..	..	..	9	0	0	0	0	0	0	0	0	0
Jamuna Chetty . .	..	..	..	..	..	..	..	..	..	12·9	..	6·3	2	2	..	..	..	..	5	..	..	..	..	..	..	..	..	..
Mussoore . .	19·0	+1·2	22·3	15	12·0	+1·3	7·4	21	42·4	83·2	+54·2	23·8	2	7	+4·7	7·6	6·2	-0·7	7	0	0	2	4	0	0	0	0	0	
Kharsali . .	..	..	..	..	..	..	..	..	..	21·8	..	7·6	3	3	..	..	..	..	6	..	..	..	..	..	..	..	..	..
Rana . .	..	..	..	..	..	..	..	..	..	7·4	..	3·0	2	1	..	..	..	..	6	..	..	..	..	..	..	..	..	..
Simla . .	18·7	+0·8	20·8	7,17	11·5	+0·7	7·0	20	24·4	59·2	+29·2	24·6	2	5	+3·1	3·8	3·0	+1·1	7	0	0	0	0	0	0	0	0	0	
Dharampore . .	..	..	..	..	..	..	..	..	..	63·0	+36·6	37·0	2	4	+2·7	..	..	..	4	..	..	..	..	..	..	..	..	..
Kylelang . .	..	..	..	..	..	..	..	..	..	50·7	+30·9	31·0	1	4	+2·7	..	..	..	4	..	..	..	..	..	..	..	..	..
Gondla . .	..	..	..	..	..	..	..	..	..	103·6	..	53·3	1	5	..	..	..	..	6	..	..	..	..	..	..	..	..	..
Kothi . .	..	..	..	..	..	..	..	..	..	130·2	..	30·7	24	8	..	..	..	..	9	..	..	..	..	..	..	..	..	..
Koksar . .	..	..	..	..	..	..	..	..	..	168·7	..	53·9	2	5	..	..	..	..	7	..	..	..	..	..	..	..	..	..
Dalhousie . .	21·8	..	24·0	3,4,31	12·6	..	6·1	20	24·0	134·0	+100·0	62·0	1	4	+1·9	2·5	3·8	..	4	0	0	0	0	0	0	0	0	0	
Dharamshala . .	24·6	..	26·3	15	16·1	..	12·8	20	78·5	121·1	..	85·4	2	4	..	4·4	2·5	..	4	0	0	5	0	0	0	0	0	0	
Abu . .	24·1	-2·1	28·9	11	17·1	-0·9	11·3	15	10·4	34·3	+15·0	11·2	14	3	+2·1	6·4	5·4	-0·1	6	0	0	1	0	0	0	0	0	0	
Pachmarhi . .	25·5	-0·8	27·2	15	16·2	+1·3	9·4	29	30·2	40·4	-18·0	12·6	3	4	+1·0	6·8	4·6	+0·9	13	0	0	2	3	0	0	0	0	0	
Mahabaleshwar . .	23·6	+0·2	26·7	26	16·0	-0·3	13·9	13	27·5	70·2	-91·1	17·1	10,11	6	-1·9	11·6	11·6	-0·6	8	0	0	6	10	0	0	0	0	0	
Nandi Hills . .	22·9	..	25·6	3,29,30	15·4	..	13·1	4days	..	192·8	..	100·0	3	7	..	10·2													

*Data given as addenda in December, 1958 issue.

(R) Received after now

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—OCTOBER, 1958 (ASVINA 9—KARTIKA 9, 1880 SAKA) 515

*Rainfall data from 1st to 11th obtained from S.R. Rain gauge.

(R) Register not received.

~~†Data not avail b/c.~~

(k) Mean of 20 days.

516 TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—OCTOBER, 1958 (ASVINA 9—KARTIKA 9, 1880 SAKA)

Division and station	Air temperature in °C									Rainfall in millimetres				No. of rainy days (2.5 mm. or more)		Wind speed, km. per hour		Weather phenomena—No. of days with												
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29		
Hydrometeorological Observatories—Contd.																														
Gandak Catchment																														
Gorkha	26.0	..	27.6	24	18.0	..	13.9	29	62.5	93.0	..	71.4	4	4	..	..	..	..	5	..	..	..	..	..	..	..	..	..	..
Pokhara	28.1	..	30.4	12, 13	17.9	..	14.8	30	56.4	256.8	..	52.6	10	7	..	..	..	..	10	..	..	..	..	..	..	..	..	..	..
Nawakot	28.2	..	29.8	26	18.5	..	15.5	29	23.1	44.8	..	32.3	4	2	..	..	..	..	3	..	..	..	..	..	..	..	..	..	..
Jomosom	19.7	..	24.3	9	..	..	..	..	36.1	51.7	..	35.3	4	2	..	..	..	..	5	..	..	..	..	..	..	..	..	..	..
Timure	24.1	..	25.6	5, 26	12.2	..	9.5	31	22.1	44.4	..	30.2	4	3	..	..	..	..	3	..	..	..	..	..	..	..	..	..	..
Gogra Catchment (Trans Himalayan Region)																														
(b) Dailekh	23.4	..	25.0	7	15.7	..	14.1	19	7.4	84.0	..	43.4	3	5	..	..	..	..	6	..	..	..	..	..	..	..	..	..	..
Gogra Catchment																														
Dandeldhura	21.2	..	24.4	23	13.4	..	11.4	20	37.7	161.3	..	109.7	1	4	..	..	..	..	5	..	..	..	..	..	..	..	..	..	..
Munsiyari	..	..	..	..	..	..	..	..	..	100.0	..	35.0	1	6	..	..	..	..	7	..	..	..	..	..	..	..	..	..	..
Sallyana (R)
Butwal	30.6	..	32.2	24	21.8	..	17.9	26	43.9	189.4	..	112.0	3	6	..	..	..	..	6	..	..	..	..	..	..	..	..	..	..
Bagmati Catchment																														
Katmandu*
Kosi Catchment																														
Chautara	25.3	..	27.3	26	16.4	..	14.1	29	0	2.3	..	16.5	4	2	..	..	..	..	3	..	..	..	..	..	..	..	..	..	..
Okhaldunga (R)	30.3	..	32.4	9	21.3	..	18.6	31	24.9	119.1	..	64.8	13	5	..	7.0	4.4	..	9	0	6	1	0	0	0	0	0	0	0	
Barahkshetra
Angbung†
Taplejung	22.7	..	24.8	8	..	..	..	..	19.9	43.3	..	20.9	4	5	..	..	..	..	8	0	0	1	5	0	0	0	0	0	0
Taplethok	26.7	..	30.4	1	12.8	..	9.0	29	..	73.4	..	20.6	2	6	..	..	..	..	11	..	..	..	..	..	..	..	..	..	..
Wallungchung Gola	14.4	..	16.1	7	5.0	..	1.3	28	22.9	34.1	..	21.1	4	4	..	..	..	..	7	..	..	..	..	..	..	..	..	..	..
Bhojpur	23.2	..	25.1	8	15.3	..	12.8	29	31.7	39.1	..	31.5	4	3	..	..	..	..	4	..	..	..	..	..	..	..	..	..	..
Chainpur	26.3	..	27.6	2, 8	17.6	..	16.6	13	7.6	84.6	..	55.9	10	4	..	..	..	..	4	..	..	..	..	..	..	..	..	..	..
Tista Catchment																														
Gangtok	21.3	..	24.4	24	13.5	..	11.2	29	33.6	110.2	..	37.6	11	6	..	4.2	3.4	..	13	0	0	0	8	0	0	0	0	0		
Geyzing	24.6	..	27.0	8	15.6	..	11.7	31	29.8	120.2	..	37.8	3	9	..	..	..	..	10	..	..	..	..	..	..	..	..	..	..

*Data included under "Hill stations".

(a) Mean of 30 days.

(R) Register not received.

†Data not available.

(c) Mean of 28 days.

(b) Mean of 29 days.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—OCTOBER, 1958 (ASVINA 9—KARTIKA 9, 1880 SAKA)

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—OCTOBER, 1958 (ASVINA 9—KARTIKA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Octas)			Wind speed (km. p. h.)	No. of observations												
			At mean sea level or height in ft.p.m. of nearest standard isobaric level		At station level	Departure from normal	Dry bulb	Wet bulb				Mean amount	Departure from normal	Mean wind speed, km. per hour		N	NE	E	SE	S	SW	W	NW	Calm	Variable			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Assam (Including Manipur, Tripura) —Contd. Gauhati . .	0830	55	1011.3	1005.0	-1.1	25.9	24.1	23.2	28.6	85	+2	4.3	+0.1	2.8	0	0	29	0	9	2	0	0	6	3	9	2	0	
Gauhati (Bhorjor Aerodrome).	1730	"	1007.0	1000.8	..	28.3	25.0	23.5	29.0	76	..	3.5	..	1.5	0	0	16	0	4	1	0	2	4	4	15	0		
Rangiya . .	0230	54	1008.9	1002.7	..	23.6	23.2	22.9	27.3	96	..	4.1	..	0.9	0	0	6	0	1	0	0	2	3	0	0	25	0	
Goalpara . .	0530	"	1009.7	1003.5	..	23.9	23.5	22.6	28.6	96	..	4.9	..	1.2	0	0	7	1	2	0	0	1	2	0	1	24	0	
Dhubri . .	0830	"	1011.5	1005.3	..	26.9	24.5	23.5	28.7	81	..	5.0	..	4.2	0	0	17	2	4	3	0	0	2	4	2	14	0	
Dhubri (Rupsi Aerodrome).	1130	"	1009.8	1003.7	..	29.2	25.4	23.6	29.5	72	..	4.6	..	6.2	0	1	27	5	12	2	0	0	0	1	2	6	3	0
Tura . .	1730	"	1007.5	1001.3	..	27.3	25.1	24.1	30.1	83	..	4.5	..	1.0	0	0	9	1	2	0	0	0	4	1	1	22	0	
Agartala . .	0830	38	1010.9	1006.6	..	26.2	24.1	23.1	28.1	83	..	2.5	..	(a)	0	1	11	1	1	2	2	1	1	0	4	18	0	
Agartala . .	1730	"	1007.5	1003.1	..	28.9	25.6	24.2	30.0	76	..	3.2	..	2.0	0	0	19	1	3	3	2	0	4	5	1	12	0	
Kailashar (C.W.O.).	0830	35	1011.8	1007.8	-0.5	26.5	24.6	23.5	28.9	85	+3	3.1	+0.1	4.9	0	0	21	0	8	0	2	1	2	0	8	10	0	
Kailashar (C.W.O.).	1730	"	1008.2	1004.2	..	26.9	24.8	23.8	29.5	84	..	2.6	..	0.9	0	0	6	0	1	0	0	1	3	0	1	25	0	
Silchar . .	0530	"	1009.0	967.9	..	26.8	24.0	22.6	27.6	78	..	4.9	..	2.6	0	0	21	0	1	1	1	5	9	3	1	10	0	
Silchar (Kumbhigram Aerodrome).	0830	16	1008.3	1006.5	..	23.9	23.4	23.2	28.3	96	..	4.6	..	4.7	0	1	15	1	1	1	1	2	0	0	0	15	0	
Silchar (Kumbhigram Aerodrome).	1130	"	1008.8	1007.0	..	23.6	23.2	23.0	28.2	97	..	5.6	..	4.6	1	0	13	2	1	0	8	3	0	0	0	17	0	
Imphal . .	0830	"	1010.6	1008.8	..	27.7	25.3	23.8	30.4	31	..	5.3	..	7.6	1	0	27	4	7	4	6	4	1	0	2	3	0	
Imphal . .	1130	"	1009.4	1007.6	..	29.8	25.8	24.2	30.0	72	..	5.6	..	7.2	0	5	23	6	2	2	3	4	3	4	3	0		
Imphal . .	1730	"	1007.5	1005.7	..	27.1	25.2	24.3	30.6	85	..	5.0	..	4.2	0	0	18	5	1	2	4	2	1	0	3	13	0	
Imphal . .	2330	"	1009.4	1007.6	..	24.6	24.0	23.7	29.4	95	..	4.3	..	3.2	0	1	10	0	3	1	6	1	0	0	0	20	0	
Haflong . .	0530	"	1012.4	923.5	..	19.2	18.8	18.5	21.5	97	..	5.0	..	1.0	0	1	1	1	0	0	0	1	0	0	0	29	0	
Haflong . .	0830	29	1011.7	1008.3	-0.8	26.8	24.8	24.0	29.6	86	+4	5.4	+1.4	0	0	0	0	0	0	0	0	0	0	0	0	31	0	
Haflong . .	1730	"	1007.7	1004.4	..	28.2	26.0	24.8	31.8	83	..	3.7	..	0	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Lumding . .	0830	97	1008.7	997.7	..	22.9	22.6	22.4	27.3	98	..	4.7	..	5.3	0	0	29	1	4	19	4	1	0	0	0	2	0	
Lumding . .	1130	"	1008.4	997.6	..	29.2	25.4	23.5	29.5	73	..	4.0	..	5.4	0	0	28	0	5	8	3	1	2	4	5	3	0	
Lumding . .	1730	"	1006.4	995.6	..	26.7	24.9	24.0	30.0	86	..	3.3	..	3.8	0	1	19	1	3	3	1	0	1	7	4	11	0	
Sub-Himalayan West Bengal, Cooch-Behar (C.W.O.).	0530	"	1012.4	923.5	..	19.2	18.8	18.5	21.5	97	..	5.0	..	0.8	0	0	8	0	1	1	0	0	0	0	0	1	23	0
Sub-Himalayan West Bengal, Cooch-Behar (C.W.O.).	0830	"	1012.5	924.8	..	23.5	21.1	20.0	23.4	81	..	5.4	..	2.7	0	0	19	2	1	2	1	8	4	0	1	12	0	
Sub-Himalayan West Bengal, Cooch-Behar (C.W.O.).	1130	"	1009.2	922.7	..	26.9	21.8	19.2	22.5	63	..	5.1	..	10.1	0	4	27	0	1	1	5	11	8	4	1	0	0	
Sub-Himalayan West Bengal, Cooch-Behar (C.W.O.).	1730	"	1008.6	921.3	..	23.6	20.9	19.5	23.0	78	..	4.7	..	5.8	0	1	18	1	3	3	1	0	1	7	5	3	12	0
Bagdogra . .	0530	801	1012.4	923.5	..	20.1	19.4	19.0	22.1	94	..	4.4	..	1.0	0	0	7	2	1	0	0	2	1	0	1	24	0	
Bagdogra . .	0830	682	1011.3	936.0	..	23.3	21.5	20.6	24.3	85	..	4.7	..	7.2	0	0	31	8	7	0	0	2	13	0	1	0	0	
Bagdogra . .	1730	"	1006.8	932.1	..	24.2	21.9	20.8	24.7	82	..	4.4	..	5.8	0	0	31	6	3	0	1	5	11	0	5	0		
Jalpaiguri . .	0830	149	1011.6	994.8	..	26.6	24.3	23.3	28.6	82	-5	5.4	..	1.1	0	0	7	0	2	3	0	0	0	1	0	24	0	
Jalpaiguri . .	1730	"	1007.5	990.8	..	27.9	25.4	24.5	30.5	81	..	5.1	..	0.2	0	0	2	0	0	0	0	0	0	0	0	2	29	0
Malda . .	0830	51	1011.1	1007.6	-0.5	27.9	24.7	22.9	28.2	75	0	4.0	+2.2	7.8	0	0	31	4	9	1	2	3	4	3	5	0	0	
Malda . .	1730	"	1007.7	1004.2	..	28.6	25.0	23.3	28.7	73	..	3.7	..	3.0	0	0	20	2	1	1	3	3	2	3	5	11	0	

(a) Mean of 30 days.

(b) Mean of 19 days.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—OCTOBER, 1958 (ASVINA 9—KARTIKA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mb.			Cloud amount (Octas)			Wind speed (km. p. h.)			No. of observations																												
			At station level			Departure from normal			Dry bulb			Wet bulb			Relative humidity %			Departure from normal			Mean amount			Wind speed km. per hour			N		NE		E		SE		S		SW		W		NW		Calm		Variable	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28																
Gangetic West Bengal																																														
Dum Dum	0230	6	1008.3	1007.6	..	25.3	24.7	24.4	30.6	95	..	3.6	..	1.6	0	0	12	4	1	0	1	3	3	0	0	19	0																			
	0530	"	1009.0	1008.3	..	24.8	24.3	24.1	29.9	95	..	4.9	..	1.8	0	0	12	3	3	1	0	3	2	0	0	19	0																			
	0830	"	1010.7	1010.0	..	28.5	25.7	24.4	30.6	79	..	5.1	..	6.3	0	0	28	6	6	2	1	5	4	1	3	3	0	0	19	0																
	1130	"	1009.6	1008.9	..	30.5	25.8	23.5	29.3	67	..	5.2	..	6.7	0	0	29	6	5	3	1	3	4	3	4	2	0	0	19	0																
	1730	"	1007.7	1007.0	..	27.9	25.3	24.2	30.2	80	..	4.7	..	2.1	0	0	12	3	1	0	0	5	3	0	0	19	0																			
	2330	"	1009.5	1008.8	..	25.6	24.8	24.5	30.7	93	..	2.8	..	1.7	0	0	11	2	2	0	0	5	2	0	0	20	0																			
Calcutta	0830	6	1010.6	1009.9	-0.8	28.7	25.3	23.7	29.7	75	-7	4.7	+1.7	6.3	0	1	25	4	4	4	2	1	6	2	3	5	0	0	1	0	0	0														
	1130	"	1009.4	1008.7	..	31.1	25.6	23.0	28.2	63	..	4.6	..	8.1	0	0	30	4	6	4	1	2	8	3	2	1	0	0	1	0	0	0														
	1730	7	1007.5	1006.8	..	28.2	25.0	23.3	28.8	76	..	5.0	..	4.0	0	1	17	2	2	0	3	3	6	1	1	13	0																			
Barrackpore	0530	7	1009.1	1008.3	..	24.8	24.2	23.8	29.9	95	..	4.3	..	2.1	0	0	14	1	2	3	0	1	5	0	2	17	0																			
	0830	"	1010.8	1010.1	..	28.3	25.4	24.0	30.5	79	..	4.8	..	7.7	0	0	26	3	6	4	2	1	6	1	3	5	0	0	1	0	0	0														
	1130	"	1009.8	1009.0	..	29.8	25.7	23.6	29.6	69	..	5.2	..	10.3	0	1	29	4	2	4	2	2	3	8	5	1	0	0	1	0	0	0														
	1730	"	1007.6	1006.9	..	27.7	25.0	23.7	29.3	80	..	4.8	..	3.8	0	0	15	2	1	1	2	4	3	1	1	16	0																			
	2330	"	1009.7	1008.9	..	25.0	24.7	24.3	28.9	94	..	2.8	..	1.9	0	0	8	0	0	1	1	2	2	0	2	23	0																			
Saugor Island	0830	3	1010.0	1009.7	-1.1	28.3	25.6	24.5	30.5	80	+2	4.9	+0.8	..	0	6	23	7	8	1	1	1	5	4	2	2	0	0	2	0	0	0														
Sandwads	0530	10	1008.5	1007.4	..	28.3	25.5	24.1	30.5	79	..	5.6	..	..	0	5	24	7	4	4	2	5	5	1	1	2	0																	
	0830	"	1010.7	1009.6	-0.8	28.8	25.5	23.8	29.9	75	+3	5.2	+1.7	..	0	2	26	4	8	4	3	3	5	1	0	3	0																			
	1130	"	1009.7	1008.6	..	29.4	25.7	23.9	30.3	67	..	5.3	..	..	0	3	26	7	6	4	2	2	5	2	1	2	0																	
	1730	"	1007.8	1006.7	..	29.3	25.6	23.9	30.1	73	..	4.9	..	..	0	8	20	3	4	5	2	8	4	1	1	3	0																	
	2330	"	1009.3	1008.2	..	28.6	25.5	24.0	30.2	76	..	1.0	..	..	0	3	23	3	4	2	4	4	7	1	1	5	0																	
Contai	0830	11	1010.4	1009.2	..	28.4	25.7	24.6	30.7	81	..	3.7	..	3.0	0	0	24	7	0	3	1	4	3	6	0	7	0																			
	1730	"	1007.4	1006.2	..	28.0	25.5	24.2	30.6	79	..	3.4	..	2.9	0	0	16	1	0	0	2	9	2	1	1	14	0																			
Midnapore	0830	45	1011.0	1005.8	-0.4	28.0	24.7	22.9	28.3	75	0	3.1	+0.5	2.4	0	0	26	6	6	2	0	1	4	1	0	11	0																			
	1730	"	1007.5	1002.4	..	28.6	24.9	23.2	28.7	74	..	1.9	..	1.5	0	0	15	0	3	1	1	5	0	0	0	16	0																			
Puri	0830	255	1011.4	982.9	..	26.3	23.2	21.1	26.1	75	..	3.6	..	3.8	0	0	25	3	2	2	6	3	1	2	6	6	0	0	0	0	0	0														
	1730	"	1007.7	979.7	..	27.6	23.8	22.0	26.2	73	..	4.5	..	1.7	0	0	12	0	1	1	4	4	1	0	1	19	0																			
Burdwan	0830	32	1010.6	1006.9	-1.0	27.9	24.9	23.6	29.0	76	-1	3.4	+0.4	0.3	0	0	6	0	0	0	0	1	3	0	0	2	25	0																		
	1730	"	1007.6	1003.9	..	29.0	25.9	24.1	30.8	76	..	5.0	..	1.0	0	0	0	0	0	0	0	0	1	3	0	0	1	11	0																	
Krishnagar	0830	15	1011.0	1009.4	-0.5	28.7	25.6	24.3	30.1	78	+5	2.7	-0.2	2.1	0	0	20	4	1	6	0	0	0	3	0	0	0	0	28	0																
	1730	"	1008.0	1006.3	..	28.0	25.0	23.8	29.1	78	..	2.8	..	6.3	0	0	3	0	0	0	0	3	1	0	0	1	1	24	0																	
Asansol	0230	126	1008.6	994.3	..	24.2	23.6	23.3	28.6	95	..	3.6	..	1.6	0	0	7	1	0	0	0	3	1	0	3	1	22	0																		
	0530	"	1009.4	995.0	..	23.5	23.2	23.0	28.2	97	..	4.4	..	1.7	0	0	9	1	0	0	0	3	1	0	3	1	22	0																		
	0830	"	1010.8	996.6	-0.7	27.2	24.8	23.7	29.3	81	+5	4.0	+1.1	3.8	0	0	20	2	0	3	4	0	0	6	5	11	0																			
	1130	"	1009.7	995.6	..	29.9	25.6	23.5	29.2	70	..	4.8	..	5.0	0	0	26	3	0	3	6	1	2	5	6	5	0	0	0	0	0	0														
	1730	"	1007.4	993.3	..	28.3	25.6	24.2	30.5	80	..	4.8	..	2.2	0	0	14	0	1	1	5	0	0	2	5	17	0																			
	2330	"	1009.7	995.4	..	24.8	23.9	23.5	28.9	93	..	3.6	..	2.4	0	0	13	1	0	1	3	2	2	1	3	18	0																			
Suri	0830	77	1011.2	1002.5	..	27.5	24.4	22.8	28.2	77	..	3.6	..	7.0	0	0	31	3	6	4	2	2	3	7	4	0	0	0	0	0	0	0	0	0	0											
	1730	"	1008.3	993.7	..	28.4	24.6	22.8	27.7	72	..	4.1	..	3.1	0	0	22	1	4	5	3	3	2	3	1	9	0			</																

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—OCTOBER, 1958 (ASVINA 9—KARTIKA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres.	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mb			Relative humidity %			Cloud amount (Octas)			Wind speed (km. p. h.)			No. of observations											
			At mean sea level or height in g.p.m. of nearest standard isobaric level			At station level			Departure from normal			Departure from normal			Mean amount			Departure from normal			Mean wind speed, km. per hour			Wind direction								
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	Calm	Variable		
Orissa—Contd.	0530	17	1008.7	1006.8	..	25.0	24.4	24.0	30.2	95	..	5.5	..	4.0	0	0	20	5	1	2	0	0	2	0	10	11	0					
	0830	"	1010.7	1008.7	-0.4	27.0	25.2	24.3	30.5	86	+8	5.5	+2.7	4.5	0	0	21	7	1	1	1	0	4	0	7	10	0					
	1130	"	1009.6	1007.7	..	29.3	26.2	25.0	31.7	78	..	5.5	..	7.1	0	0	26	6	5	3	2	5	2	0	3	5	0					
	1730	"	1007.8	1005.9	..	27.9	25.5	24.4	30.5	82	..	5.8	..	5.9	0	1	24	2	4	6	3	6	3	0	1	6	0					
	2330	"	1009.5	1007.6	..	26.2	25.1	24.5	31.0	91	..	4.9	..	4.8	0	1	20	4	2	2	2	1	4	0	6	10	0					
Koraput	0830	913	1507.4	910.7	..	21.2	19.5	18.4	21.6	85	..	4.2	..	..	0	0	31	1	10	6	3	3	7	0	1	0	0			
	1730	"	1486.4	908.2	..	23.0	20.0	18.3	21.1	76	..	5.4	..	..	0	0	31	3	6	4	4	1	0	3	10	0	0			
Titilagarh	0830	211	1010.3	986.6	..	26.1	23.6	22.4	27.0	80	..	3.7	..	2.5	0	0	22	4	5	2	4	5	2	0	0	9	0					
	1730	"	1006.3	982.8	..	28.2	24.9	22.9	28.8	76	..	3.8	..	2.5	0	0	26	11	10	1	2	2	0	0	0	5	0					
Bolangir	0830	190	1010.5	989.0	..	25.5	23.4	22.4	27.1	82	..	5.1	..	5.3	0	0	26	8	6	2	2	3	0	3	5	0						
	1730	"	1007.3	986.0	..	28.1	24.2	22.3	27.0	72	..	5.9	..	5.8	0	0	28	10	8	1	1	2	0	5	3	0						
Angul	0830	139	1011.2	995.5	0	28.1	23.8	23.0	27.9	84	+7	5.3	+1.8	2.7	0	0	24	1	2	4	3	1	2	7	4	7	0					
	1730	"	1007.8	992.2	..	28.0	24.3	22.7	27.6	74	..	6.0	..	2.6	0	0	20	0	4	2	4	6	2	2	0	11	0					
Keonjhar	0830	463	1008.2	956.5	..	24.6	22.1	20.7	24.8	78	..	4.5	..	3.8	0	0	27	7	7	1	5	0	1	2	4	4	0					
	1730	"	1004.5	953.5	..	26.1	22.7	20.9	25.3	75	..	5.3	..	4.0	0	0	30	4	5	6	2	2	2	1	0	0						
Sambalpur	0830	148	1010.8	994.0	-0.9	26.7	24.0	22.4	27.7	79	+3	3.4	+0.7	2.7	0	0	24	3	7	5	3	2	3	0	1	7	0					
	1730	"	1007.5	990.9	..	27.6	24.1	22.3	27.1	74	..	4.2	..	2.3	0	0	16	3	3	1	3	2	1	2	15	0						
Jharsuguda	0230	230	1008.5	982.5	..	23.2	22.4	22.0	26.4	94	..	3.5	..	1.5	0	0	8	1	4	0	1	0	0	0	2	23	0					
	0530	"	1009.2	983.1	..	22.6	22.1	21.8	25.1	96	..	3.7	..	4.1	0	0	23	4	12	2	0	1	0	0	0	4	8	0				
	0830	"	1010.8	984.9	..	25.8	23.4	22.2	26.9	81	..	3.9	..	5.3	0	0	23	3	10	4	0	2	0	1	3	8	0					
	1130	"	1009.4	983.9	..	29.2	24.0	21.2	25.7	63	..	4.5	..	6.9	0	1	23	1	11	4	1	2	2	1	2	7	0					
	1730	"	1007.4	981.7	..	27.2	23.9	22.2	26.9	75	..	4.4	..	2.9	0	0	15	0	4	3	2	3	1	2	0	16	0					
Chota Nagpur	2330	"	1009.6	983.6	..	24.0	23.0	22.5	27.3	91	..	3.6	..	3.4	0	0	18	2	6	3	2	1	1	0	3	13	0					
	0830	129	1011.2	996.6	-0.4	26.0	23.7	22.5	27.3	81	+6	3.8	+0.7	4.9	0	0	24	0	0	6	1	0	0	10	7	0						
	1730	"	1007.5	993.1	..	28.3	24.4	22.5	27.5	72	..	4.0	..	2.9	0	0	15	0	2	3	0	1	1	16	0							
	0530	145	1009.2	992.7	..	23.2	22.6	22.2	26.9	95	..	5.3	..	2.2	0	0	18	1	2	3	1	0	0	2	2	7	13	0				
	0830	"	1011.0	994.6	..	26.3	23.6	22.3	27.8	79	..	4.5	..	4.7	0	0	29	1	3	5	0	0	0	6	9	5	2	c				
Dhailana	1130	"	1009.8	993.6	..	29.5	24.3	21.6	26.1	64	..	4.9	..	5.7	0	0	30	3	6	1	3	0	7	3	7	1	0					
	1730	"	1007.5	991.2	..	28.4	24.1	22.1	26.4	71	..	5.1	..	2.9	0	0	17	3	8	5	2	0	1	0	0	14	0					
Ranchi	0830	226	1010.6	985.9	-0.5	26.1	23.4	21.9	26.4	78	+2	4.2	+1.4	0.5	0	0	5	0	3	0	1	0	0	26	0							
	1730	"	1007.3	982.1	..	27.7	24.1	22.3	27.0	73	..	4.9	..	0.1	0	0	1	0	0	0	1	0	0	0	30	0						
Ranchi (C.W.O.)	0830	655	1009.9	938.0	-0.7	24.9	22.3	21.0	25.0	80	+14	6.6	+0.8	1.3	0	0	12	0	2	9	6	1	0	0	0	19	0					
	1730	"	1008.3	936.1	..	25.2	22.2	21.0	24.7	77	..	3.0	..	0.1	0	0	1	0	1	0	0	0	0	0	0	30	0					
Daltonganj	0530	652	1009.6	936.9	..	20.4	19.4	18.7	22.0	90	..	4.1	..	3.8	0	0	18	7	1	4	0	2	1	0	3	13	0					
	0830	"	1010.6	938.6	..	23.7	20.7	19.1	22.2	76	..	4.1	..	6.4	0	0	25	5	5	2	1	2	5	1	4	6	0					
Hazaribagh	1130	"	1009.3	938.2	..	26.6	21.1	17.8	21.0	61	..	5.2	..	7.1	0	0	30	6	5	6	1	4	4	1	3	1	0					
	1730	"	1007.4	936.1	..	25.6	21.5	19.5	23.3	70	..	4.2	..	4.2	0	0	20	7	5	1	0	4	2	0	1	3	0					
Dhanbad	0830	221	1010.9	986.1	-0.7	26.8	23.1	21.1	25.6	72	-4	3.3	+1.5	1.9	0	0	18	1	1	6	3	1	1	5	0	13	0					
	1730	"	1007.5	982.8	..	27.4	23.5	21.5	25.9	71	..	4.5	..	1.4	0	0	10	1	3	1	0	0	1	2	2	21	0					

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—OCTOBER, 1958 (ASVINA 9—KARTIKA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars				Mean temperature in °C				Relative humidity %	Departure from normal	Cloud amount (Oktas)	Wind speed (kms. p.h.)	No. of observations																	
															Wind direction																	
			At mean sea level or height in g.p.m. of nearest standard isobaraic level	At station level	Departure from normal	Dew point	Dry bulb	Wet bulb	Vapour pressure in mbs.						Mean wind speed, km. per hour	62 or more	20 to 61	1 to 19	N	NE	E	S	SW	W	NW	Calm	Variable					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28					
Bihar—Contd. Patna (Aerodrome) .	0530	60	1008.4	1001.6	..	23.5	23.0	22.7	27.7	95	..	2.8	..	1.9	0	0	7	0	0	0	3	0	2	1	1	24	0					
	0830	"	1010.2	1003.4	..	27.0	24.5	23.0	28.7	78	..	2.5	..	7.6	0	0	24	1	2	1	6	3	4	6	1	7	0					
	1130	"	1009.4	1002.7	..	30.1	24.7	22.2	26.7	64	..	3.7	..	9.4	0	1	27	2	3	2	3	4	4	8	2	3	0					
	1730	"	1006.9	1000.2	..	29.0	24.9	22.8	28.1	71	..	2.9	..	3.7	0	0	12	2	0	1	2	0	2	3	2	19	0					
	* 2330	52	1009.1	1003.3	..	28.2	25.6	24.8	30.7	82	..	1.9	..	0.3	0	0	3	0	0	2	1	0	0	0	0	26	0					
	Dehri . .	0830	107	1010.7	998.6	..	26.9	23.9	22.4	27.2	77	..	2.8	..	2.8	0	0	29	1	1	3	6	5	10	2	1	2	0				
Gaya . .	1730	"	1006.9	994.8	..	28.7	24.5	22.4	27.4	70	..	2.8	..	2.1	0	0	22	6	1	2	2	5	3	9	0							
	0230	116	1009.1	995.8	..	24.0	23.6	23.3	28.7	96	..	2.9	..	1.9	0	0	11	0	0	2	3	1	1	20	0							
	0530	"	1009.3	996.0	..	23.2	22.9	22.6	27.7	97	..	3.5	..	2.9	0	0	17	0	0	0	1	5	3	6	1	1	14	0				
	0830	"	1011.1	997.9	-0.3	26.5	24.4	23.4	29.0	83	+15	3.5	+1.6	4.3	0	0	21	0	0	1	3	4	8	4	1	10	0					
	1130	"	1010.2	997.2	..	30.1	26.0	24.0	30.3	71	..	3.5	..	8.3	0	2	24	2	2	6	4	2	1	5	4	5	0					
	1730	"	1007.9	994.8	..	28.2	25.5	24.2	30.5	80	..	4.0	..	3.0	0	0	18	2	4	3	3	1	0	2	3	13	0					
Jamui . .	2330	"	1010.0	996.7	..	24.8	24.2	23.8	29.7	95	..	2.9	..	1.9	0	0	8	0	0	1	7	3	3	0	0	23	0					
	0830	82	1010.2	1001.0	..	26.2	24.2	23.2	28.8	84	..	2.9	..	3.0	0	0	23	0	0	1	8	0	0	0	0	7	8	0				
	1730	"	1007.3	997.7	..	28.2	25.0	23.4	28.8	75	..	2.9	..	2.2	0	0	17	0	0	1	5	3	0	0	0	1	7	14	0			
	0830	149	1010.2	993.4	-1.5	27.1	24.2	22.3	27.9	71	-1	3.0	+0.9	4.4	0	0	30	4	1	11	5	0	1	5	2	1	0					
	1730	"	1007.9	991.0	..	28.5	24.3	22.1	26.9	69	..	3.5	..	3.8	0	0	26	3	0	7	3	2	2	3	5	0						
	Bhagalpur . .	0530	49	1009.1	1003.5	..	24.5	23.7	23.2	28.6	93	..	3.4	..	3.1	0	0	18	0	0	3	3	5	4	1	2	13	0				
Dumka . .	0830	"	1011.1	1005.6	..	27.7	24.8	23.3	29.0	78	..	2.7	..	3.9	0	0	25	1	0	5	6	2	3	5	3	6	0					
	1130	"	1010.3	1004.8	..	30.0	25.4	23.2	28.6	68	..	3.5	..	5.6	0	0	29	2	3	2	8	1	5	4	3	2	1					
	1730	"	1007.6	1002.1	..	28.7	25.0	23.4	29.0	74	..	3.4	..	3.0	0	0	19	1	1	0	2	0	4	6	5	12	0					
	2330	"	1009.8	1004.2	..	25.8	24.3	23.5	29.1	88	..	2.1	..	3.2	0	0	18	1	2	2	6	0	2	4	1	13	0					
	Sabour . .	0830	37	1011.0	1006.7	-0.8	27.7	25.0	23.6	29.5	79	+3	2.9	+0.3	4.7	0	0	28	1	1	4	6	1	11	2	2	3	0				
	1730	"	1007.6	1003.4	..	28.7	26.1	25.0	31.8	82	..	3.4	..	1.2	0	0	10	0	0	1	0	4	2	2	21	0						
Uttar Pradesh (East)	0830	110	1010.5	998.1	..	25.0	23.0	21.9	26.6	83	+7	2.4	+1.0	2.3	0	0	20	1	0	10	0	0	0	2	7	11	0					
	1730	"	1007.5	995.0	..	27.5	23.7	21.5	25.5	70	..	2.2	..	0.5	0	0	3	0	0	3	0	0	0	0	0	0	28	0				
	Nautanwa . .	0830	99	1010.9	999.5	..	25.1	23.3	22.2	27.3	85	..	2.6	..	2.2	0	0	21	1	1	7	6	1	1	2	2	10	0				
	1730	"	1007.8	996.6	..	27.8	24.5	22.7	27.9	73	..	1.7	..	1.7	0	0	11	1	1	3	2	1	2	1	0	20	0					
	Gorakhpur . .	0830	77	1009.2	1000.5	-2.1	26.9	23.8	21.9	27.9	75	0	2.3	+1.1	1.4	0	0	14	1	1	3	0	1	0	8	0	17	0				
	1730	"	1007.1	998.3	..	28.4	24.1	21.8	26.0	70	..	2.5	..	1.3	0	0	12	2	2	1	0	2	0	5	0	19	0					
Gorakhpur (P.B.O.) .	0230	78	1008.4	999.4	..	24.1	22.8	22.1	26.6	89	..	2.5	..	2.9	0	0	13	1	3	1	1	1	1	4	1	18	0					
	0530	"	1008.6	999.9	..	23.8	22.4	22.0	25.9	91	..	3.2	..	2.8	0	1	9	0	3	0	2	0	1	3	1	21	0					
	1130	"	1009.8	1001.2	..	30.2	24.6	22.0	26.4	62	..	3.6	..	4.7	0	0	29	0	4	3	4	6	5	5	2	2	0					
	2330	"	1009.4	1000.5	..	25.2	23.2	22.2	27.1	85	..	2.1	..	2.8	0	0	14	3	4	1	0	1	1	3	1	17	0					
	Azamgarh . .	0830	78	1010.1	1001.3	..	26.3	23.9	22.2	27.1	79	..	2.2	..	0	0	0	28	0	0	11	1	0	0	0	16	0	3	0			
	1730	"	1007.3	998.3	..	28.1	25	24.8	30.9	79	..	1.9	..	0	0	0	2	0	0	0	0	0	0	0	0	29	0					
Varanasi (Banaras)	0830	64	1010.8	1003.5	..	26.4	23.7	22.4	26.4	79	..	3.2	..	2.7	0	0	25	0	7	3	0	11	0	1	6	0	20	0				
	1730	"	1007.3	1000.4	..	29.0	24.5	22.1	27.0	67	..	4.1	..	2.0	0	0	11	1	2	1	1	2	0	3	20	0						
	0830	76	1010.2	1001.6	-1.2	26.0	23.2	21.5	25.7	77	+8	2.6	+0.9	5.0	0	0	23	2	1	4	1	2	10	2	1	8	0					
	1730	"	1007.2	998.7	..	28.6	23.9	21.1	25.3	66	..	3.2	..	4.5	0	0	25	4	0	5	3	1	4	4	6	0						
	0530	85	1009.9	1000.0	..	22.4	21.9	21.7	25.5	93	..	3.1	..	3.7	0	0	19	1	1	4	0	4	6	3	0	12	0					
	0830	"	1011.7	1002.0	..	25.8	23.3	22.0	26.2	79	..	2.7	..	7.9	0	1	27	0	2	3	3	0	12	6	2	3	0					

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—OCTOBER, 1958 (ASVINA 9—KARTIKA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars																Mean temperature in °C		Vapour pressure in mbs.	Relative humidity %	Cloud amount (Okta)	Wind speed (km.p.h.)	No. of observations											
			At mean sea level				Departure from normal				Dry bulb				Wet bulb				Dew point		Departure from normal		Mean amount		Departure from normal		Mean wind km. per hour		Wind direction							
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	Calm						
Lucknow . . .	0830	111	1011.0	998.4	-0.2	25.9	22.6	20.7	24.1	73	+4	1.4	+0.4	4.3	0	0	26	4	0	8	0	1	0	13	0	5	0	0	0	0	0	0				
Lucknow (Amausi Aerodrome) . . .	1730	"	1007.9	995.5	..	28.1	23.7	21.7	25.1	60	..	2.5	..	4.0	0	0	24	0	0	6	0	0	0	18	0	7	0	0	0	0	0	0				
Lucknow (Amausi Aerodrome) . . .	0230	128	1008.4	993.8	..	22.1	21.1	20.6	24.1	9	..	1.7	..	1.6	0	0	10	1	0	2	1	0	0	0	3	3	21	0	0	0	0	0	0			
Lucknow (Amausi Aerodrome) . . .	0530	"	1008.8	994.1	..	21.4	20.6	20.1	23.9	3	..	1.8	..	2.3	0	0	13	0	1	4	0	1	0	5	2	18	0	9	0	0	0	0	0			
Lucknow (Amausi Aerodrome) . . .	0830	"	1010.5	996.0	-0.8	25.4	22.4	20.7	24.8	76	+19	1.8	+0.8	6.7	0	0	26	2	2	4	3	0	1	6	8	5	0	0	0	0	0	0				
Lucknow (Amausi Aerodrome) . . .	1130	"	1009.9	995.6	..	29.7	22.9	18.9	22.5	54	..	2.3	..	7.7	0	0	29	2	2	1	7	2	2	2	11	2	0	0	0	0	0	0				
Lucknow (Amausi Aerodrome) . . .	1730	"	1007.4	993.1	..	27.3	23.1	20.9	24.8	69	..	3.2	..	4.1	0	0	23	3	4	2	0	1	2	3	8	8	0	0	0	0	0	0				
Hardoi . . .	0830	142	1010.5	994.3	..	24.2	22.1	20.8	24.8	82	..	2.1	..	3.0	0	0	21	1	2	4	2	0	0	8	4	10	0	0	0	0	0	0				
Lakhimpur Kheri . . .	0830	147	1010.4	993.6	..	24.3	22.7	21.2	26.4	84	..	1.7	..	1.1	0	0	10	0	0	6	0	0	4	0	0	21	0	0	0	0	0	0	0			
Bahraich . . .	0830	124	1010.1	996.1	-0.9	26.7	23.1	20.9	25.3	73	0	2.5	+1.5	4.2	0	1	25	5	2	10	1	0	0	7	1	5	0	0	0	0	0	0				
Bahraich . . .	1730	"	1007.6	993.7	..	28.2	23.4	20.9	25.3	65	..	3.2	..	2.2	0	0	15	0	1	4	1	0	0	8	1	16	0	0	0	0	0	0				
Uttar Pradesh (West)																																				
Orai . . .	0830	141	1011.6	995.7	..	26.8	22.9	20.8	24.6	71	..	2.2	..	4.1	0	0	30	2	2	0	3	2	1	0	20	1	0	0	0	0	0	0				
Jhansi . . .	1730	"	1008.0	992.2	..	28.3	22.5	18.8	22.5	57	..	2.1	..	3.5	0	0	31	5	4	1	2	1	0	3	4	5	14	0	0	0	0	0	0			
Agra . . .	0830	251	1011.3	982.8	-0.7	24.3	20.7	18.5	21.7	71	+16	2.0	+1.0	1.8	0	0	17	2	1	1	1	0	0	1	9	11	0	0	0	0	0	0				
Agra (Aerodrome) . . .	1730	"	1008.0	980.0	..	29.6	21.6	16.3	18.9	48	..	2.2	..	2.1	0	0	20	3	2	4	0	1	0	0	0	0	0	0	0	0	0	0				
Agra (Aerodrome) . . .	0530	168	1009.5	990.1	..	20.4	19.8	19.4	22.4	94	..	2.3	0	1	5	0	1	0	0	0	0	3	1	1	25	0	0	0	0	0	0			
Agra (Aerodrome) . . .	0830	"	1010.9	991.7	..	24.7	21.9	20.6	23.7	78	..	2.0	0	0	19	3	2	2	0	0	0	2	5	5	12	0	0	0	0	0	0			
Agra (Aerodrome) . . .	1130	"	1010.5	991.7	..	29.9	23.0	19.7	22.5	56	..	2.4	0	4	24	4	4	3	0	0	0	1	6	10	3	0	0	0	0	0	0			
Agra (Aerodrome) . . .	1730	"	1007.9	988.9	..	28.3	22.2	19.1	21.8	59	..	2.5	0	0	24	5	3	2	1	0	0	0	2	11	7	0	0	0	0	0	0			
Mainpuri . . .	0830	157	1010.2	992.4	-0.8	25.6	22.2	20.4	24.1	75	+13	1.8	+0.8	2.1	0	0	23	0	0	4	1	0	0	17	1	8	0	0	0	0	0	0				
Mainpuri . . .	1730	"	1006.6	989.2	..	29.1	25.1	23.5	28.5	74	..	2.1	..	0.8	0	0	8	0	0	2	0	1	0	4	1	23	0	0	0	0	0	0	0			
Aligarh . . .	0830	187	1010.8	939.4	..	24.1	21.0	19.0	22.1	74	+23	2.1	+1.6	2.1	0	0	22	2	0	8	0	0	0	11	1	9	0	0	0	0	0	0	0			
Barailly . . .	0830	173	1010.4	990.7	-0.8	24.6	21.6	20.1	23.7	77	+4	1.7	+0.8	1.5	0	0	10	4	0	1	0	0	0	0	2	21	0	0	0	0	0	0	0			
Barailly . . .	1730	"	1007.1	987.1	..	27.5	22.2	19.1	22.1	62	..	2.2	..	0.5	0	0	2	0	1	1	0	0	0	0	0	0	29	0	0	0	0	0	0	0		
Bareilly (P.B.O.) . . .	0230	172	1008.5	988.7	..	22.4	20.3	19.8	21.6	85	..	1.6	..	1.7	0	0	10	0	0	3	0	0	0	0	4	3	21	0	0	0	0	0	0	0		
Bareilly (P.B.O.) . . .	0530	"	1008.5	988.9	..	21.9	20.4	19.7	22.7	88	..	2.1	..	4.3	0	0	19	1	3	5	0	0	0	0	7	3	12	0	0	0	0	0	0	0		
Bareilly (P.B.O.) . . .	1130	"	1010.1	990.8	..	27.6	23.5	21.6	26.5	69	..	2.3	..	6.6	0	0	29	1	2	6	3	0	1	5	0	20	0	0	0	0	0	0	0			
Bareilly (P.B.O.) . . .	2330	"	1009.4	989.8	..	23.6	21.2	20.1	23.2	81	..	1.2	..	1.3	0	0	11	0	1	3	1	1	0	0	5	0	20	0	0	0	0	0	0	0		
Meerut . . .	0830	222	1011.2	986.2	+0.3	24.4	20.9	18.7	21.7	72	+5	0.7	+0.2	3.3	0	0	17	0	1	12	0	0	0	0	2	2	14	0	0	0	0	0	0	0		
Najibabad . . .	0830	270	1010.9	980.2	..	21.9	19.9	18.4	21.4	81	..	1.6	..	1.2	0	0	13	1	3	2	3	0	0	0	1	3	18	0	0	0	0	0	0	0		
Najibabad . . .	1730	"	1008.2	978.2	..	28.6	22.9	20.1	23.2	61	..	0.9	..	1.1	0	0	11	0	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	
Roorkee . . .	0830	274	1011.3	980.0	-0.4	21.6	19.5	18.7	21.4	84	+12	2.5	+1.9	0.3	0	0	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Roorkee . . .	1730	"	1008.0	977.4	..	27.5	21.9	18.7	21.4	59	..	2.3	..	0.5	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dehra Dun . . .	0530	682	1010.5	934.1	..	18.0	16.2	14.9	17.1	83	..	2.0	..	3.7	0	0	19	10	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dehra Dun . . .	0830	"	1011.2	935.4	-0.2	21.8																														

TABLE III.—SUMMARY OF OBSERVATIONS AT FIXED HOURS—OCTOBER, 1958 (ASVINA 9—KARTIKA 9, 1880 SAKA)

(B) Register not received

*Observations for 29 days.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—OCTOBER, 1958 (ASVINA 9—KARTIKA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mb.	Relative humidity %	Cloud amount (Oktas)	Wind speed (km. p.h.)	No. of observations															
			At mean sea level or height in g.p.m. of nearest standard isobaric level			At station level							Wind direction															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan (West)— Contd.																												
Bikaner . . .	0830	224	1011.3	985.8	0	23.3	..	..	..	..	0.3	-0.3	3.1	0	0	22	0	1	1	12	1	0	5	2	9	0	0
	1730	"	1007.7	982.9	..	32.7	..	..	..	..	0.7	..	5.0	0	0	27	2	10	0	3	0	2	1	9	4	0	0
Bikaner (P.B.O.) . .	0530	224	1009.7	984.0	..	20.2	18.0	16.5	18.1	80	..	0.9	..	3.1	0	0	11	0	0	0	1	6	2	2	0	20	0	
	1130	"	1010.8	986.0	..	31.5	23.8	19.8	23.0	51	..	1.1	..	5.9	0	0	24	1	3	1	1	3	4	5	6	7	0	
	2330	"	1010.2	984.7	..	23.3	19.0	16.2	18.8	66	..	0.9	..	1.9	0	0	10	0	2	1	1	3	1	1	1	1	21	0
Jaisalmer . . .	0830	242	1010.6	983.4	..	26.2	19.3	14.6	16.6	51	..	1.3	..	13.6	0	6	20	1	2	0	1	9	9	1	3	5	0	
	1730	"	1006.8	980.5	..	34.4	22.5	13.3	17.5	29	..	1.6	..	16.0	0	6	23	2	4	0	0	0	12	10	0	1	2	0
Iphalodi . . .	0830	234	1011.5	985.0	..	25.4	..	..	..	..	1.0	..	9.1	0	2	25	2	1	0	5	2	7	8	2	4	0	
	1730	"	1008.2	982.4	..	33.9	..	..	..	..	1.5	..	9.7	0	2	24	2	3	2	0	2	5	6	6	5	0	
Nagaur . . .	0830	298	1011.0	977.5	..	24.5	19.8	16.7	19.1	63	..	0.8	..	5.5	0	1	26	1	0	4	2	6	10	3	1	4	0	
	1730	"	1007.7	975.0	..	31.8	22.0	15.1	18.4	39	..	1.5	..	6.6	0	0	26	4	5	3	0	1	5	1	7	5	0	
Jodhpur . . .	0230	224	1009.9	984.3	..	23.4	18.9	15.8	18.2	63	..	0.6	..	4.5	0	0	21	1	10	0	0	1	1	6	2	10	0	
	0530	"	1010.2	984.5	..	21.8	18.4	16.1	18.4	71	..	0.7	..	3.2	0	0	17	1	9	1	0	0	2	3	1	14	0	
	0830	"	1011.8	986.2	+1.3	24.1	19.5	16.3	19.0	63	+12	1.4	+0.4	3.2	0	0	15	0	7	0	1	1	3	3	0	16	0	
	1130	"	1011.5	986.5	..	30.6	21.7	16.3	18.7	44	..	1.3	..	6.2	0	0	25	1	5	4	2	3	4	3	3	6	0	
	1730	"	1008.0	983.3	..	32.7	21.5	13.9	16.0	33	..	2.2	..	5.4	0	0	21	3	9	0	1	0	4	3	1	10	0	
Barmer . . .	0530	194	1008.7	986.7	..	24.9	19.9	16.4	19.3	61	..	1.0	..	9.2	0	2	23	2	1	1	1	1	4	6	9	6	0	
	0830	"	1010.9	988.9	-0.3	26.2	20.7	17.3	19.7	59	+3	1.9	+1.2	7.9	0	1	29	3	3	1	3	2	6	6	6	1	0	
	1130	"	1010.5	989.1	..	33.0	22.3	15.7	18.2	38	..	1.7	..	10.6	0	1	30	3	6	4	2	3	6	4	3	0	0	
	1730	"	1007.3	985.9	..	33.4	21.7	14.1	16.4	32	..	3.3	..	7.3	0	0	28	5	8	1	2	4	4	1	3	3	0	
	2330	"	1009.4	987.6	..	27.5	20.6	16.1	18.1	51	..	0.9	..	7.3	0	0	25	1	0	0	1	4	7	6	6	6	0	
Rajasthan (East) . .																												
Pilani . . .	0830	..	..	..	..	22.4	18.0	14.7	16.2	63	..	1.3	..	7.7	0	0	29	1	3	2	2	2	13	4	2	2	0
	1730	"	..	..	..	31.1	20.9	13.9	16.9	37	..	1.2	..	9.0	0	1	30	4	5	1	1	1	1	2	16	0	0
Alwar . . .	0830	271	1010.9	980.1	..	21.9	20.0	18.2	21.4	77	..	1.7	..	0.3	0	0	6	1	2	1	0	1	0	1	25	0		
	1730	"	1007.9	977.9	..	29.7	22.0	18.3	20.1	52	..	2.0	..	3.5	0	0	18	6	5	1	1	1	2	1	1	13	0	
Sikar . . .	0830	433	1011.2	963.1	..	23.4	18.3	14.3	17.0	59	..	0.7	..	1.8	0	0	18	0	1	2	0	5	1	1	9	0	13	0
	1730	"	1007.1	959.8	..	30.3	19.5	11.4	13.4	32	..	1.7	..	3.0	0	0	31	2	5	0	2	0	0	9	13	0	0	
Jaipur . . .	0830	436	1011.8	962.8	-0.6	24.0	19.3	15.8	18.4	62	+16	1.3	+0.3	4.6	0	0	22	4	4	3	0	0	0	3	8	9	0	
	1130	"	1010.7	962.8	..	30.4	20.2	12.3	15.4	36	..	1.9	..	8.3	0	0	31	5	2	2	2	0	4	7	9	0	0	
	1730	"	1007.7	960.0	..	30.5	20.1	12.4	15.4	35	..	2.0	..	6.8	0	0	29	5	5	4	1	0	0	5	9	2	0	
Jaipur (Sanganer Aerodrome) . .	0230	390	1009.9	965.5	..	20.6	17.8	15.6	18.1	74	..	0.9	..	0	0	0	16	8	1	4	0	0	0	0	3	15	0	
	0530	"	1010.3	965.7	..	19.6	17.2	15.3	17.5	77	..	1.3	..	0	0	0	20	0	2	2	0	0	0	1	5	11	0	
	0830	"	1010.9	967.1	..	24.7	19.7	16.3	18.9	62	..	1.3	..	0	1	20	5	0	4	0	1	0	0	11	10	0		
	1130	"	1010.4	967.3	..	29.9	20.9	14.5	18.5	42	..	2.0	..	0	0	0	31	3	1	6	0	0	1	5	15	0		
	1730	"	1007.5	964.5	..	29.8	20.3	13.7	16.1	40	..	2.1	..	0	0	0	29	5	1	8	0	0	1	0	14	2	0	
	2330	"	1010.4	966.2	..	22.1	18.1	15.0	18.2	66	..	0.4	..	3.9	0	0	19	8	3	5	0	0	0	1	2	12	0	
Dholpur . . .	0830	176	1010.4	990.2	..	24.5	21.3	19.4	22.6	74	..	2.0	..	2.8	0	0	13	2	0	0	1	1	4	4	18	0		
	1730	"	1007.4	987.7	..	28.1	22.4	19.3	23.2	60	..	2.3	..	1.6	0	0	11	5	2	0	1	0	1	0	2	20	0	
Ajmer . . .	0830	486	1012.0	957.4	-0.5	22.7	18.7	16.2	18.7	67	+20	1.4	+0.5	2.3	0	0	13	0	4	0	0	1	3	5	0	18	0	
	1730	"	1008.2	954.9	..	29.0	19.2	12.2	14.3	38	..	2.1	..	6.7	0	0	29	9	8	0	1	1	1	2	7	2	0	
Kotah . . .	0530	257	1010.4	981.1	..	21.6	18.9	17.3	19.6	78	..	1.0	..	0.8	0	0	8	0	1	0	0	0	0	4	3	0	23	0
	0830	"	1011.6	982.5	-0.3	24.8	20.4	17.5	19.6	65	+16	0.9	-0.4	2.7	0	0	20	1	10	2	2	0	3	11	1	11	0	
	1130	"	1010.9	982.3	..	30.5	21.9	16.4	19.3	45</																		

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—OCTOBER, 1958 (ASVINA 9—KARTIKA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean temperature in °C								Cloud amount (Octas)	Wind speed (km.p.h.)	No. of observations																
				At station level				Departure from normal						Relative humidity %				Departure from normal				Mean amount				Departure from normal				
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	Calm	Variable	
I	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28			
Rajasthan (East)—contd.																														
Erinpura (Jawai Dam)	0830	295	1011.4	978.0	..	24.6	20.4	18.1	20.4	68	..	1.8	..	5.1	0	0	26	0	1	3	7	12	2	0	1	5	0	0		
	1730	"	1007.7	975.2	..	31.0	22.1	17.5	19.6	47	..	2.7	..	5.1	0	0	28	5	4	4	4	1	5	4	1	3	0	0		
Madhya Pradesh (West)	0230	207	1009.1	985.4	..	20.6	19.2	18.3	21.2	87	..	1.7	..	1.6	0	0	17	2	0	0	3	4	6	2	0	14	0			
Gwalior (P.B.O.)	0530	"	1009.5	985.8	..	19.8	18.7	17.7	20.6	98	..	2.1	..	2.0	0	0	15	0	1	0	5	2	4	1	2	16	0			
	0830	"	1010.9	987.5	-0.8	24.7	21.0	18.6	21.9	70	+11	2.1	+1.3	4.3	0	0	24	2	2	1	3	5	7	3	7	0	0			
	1130	"	1010.5	987.4	..	29.1	22.1	17.5	21.0	53	..	2.6	..	7.2	0	0	30	7	2	2	3	2	0	6	8	1	0			
	1730	"	1008.0	984.9	..	28.2	22.2	18.6	21.9	58	..	2.5	..	3.3	0	0	18	9	1	3	1	0	0	1	3	13	0			
Sheopur Kalan	2330	"	1010.2	986.5	..	21.2	19.7	18.8	21.9	85	..	1.3	..	2.2	0	0	15	2	0	1	1	2	5	1	3	16	0			
	0830	235	1011.4	984.6	..	23.3	20.5	19.2	21.8	76	..	1.7	..	4.0	0	0	23	1	4	2	6	4	5	1	0	8	0			
Guna	1730	"	1007.7	981.6	..	29.1	22.7	18.9	22.3	55	..	2.3	..	6.6	0	0	27	7	10	6	1	0	0	1	2	4	0			
	0530	478	1010.4	955.9	..	18.4	17.3	16.6	18.8	89	..	1.9	..	1.0	0	0	9	2	0	9	1	1	0	5	0	12	0			
	0830	"	1011.2	957.5	-1.0	23.3	19.7	17.2	20.1	71	+9	2.2	+1.0	2.5	0	0	19	3	0	9	1	1	3	7	1	0	0			
	1130	"	1010.1	957.5	..	27.8	20.2	15.0	17.1	47	..	2.3	..	6.6	0	0	30	6	3	5	2	3	1	3	7	1	0			
	1730	"	1007.9	955.1	..	27.7	20.2	14.2	17.7	49	..	2.7	..	9.0	0	0	30	16	5	1	0	0	0	3	5	1	0			
Rajgarh	2330	"	1010.8	957.3	..	20.6	18.5	17.4	19.3	81	..	0.9	..	1.5	0	0	11	0	2	4	2	1	2	0	0	20	0			
	0830	392	1011.1	968.0	..	22.7	20.7	18.8	22.9	80	..	1.7	..	3.2	0	0	18	5	4	2	0	3	0	1	3	13	0			
Neemuch	1730	"	1007.1	965.0	..	28.9	22.7	18.6	22.5	57	..	2.3	..	4.5	0	0	29	13	4	2	0	8	0	1	1	2	0			
	0830	496	1012.4	957.0	+0.1	24.0	19.2	16.1	18.3	63	+8	1.9	+0.7	5.1	0	0	25	2	13	4	0	0	2	3	1	6	0			
Ratlam	1730	"	1008.6	954.3	..	29.0	19.5	13.1	16.5	40	..	2.9	..	7.5	0	0	29	8	13	0	0	1	2	5	3	15	0			
	0830	486	1011.9	957.0	..	21.5	18.9	17.1	20.1	77	..	2.3	..	2.8	0	0	16	0	7	2	0	0	3	3	1	5	0			
Alicajpur	1730	"	1007.4	954.2	..	29.3	20.6	15.5	17.8	48	..	3.0	..	6.0	0	0	26	7	10	4	0	0	0	3	2	5	0			
	0830	293	1012.1	976.9	..	23.1	21.1	19.7	23.4	81	..	2.5	..	4.3	0	0	15	0	0	4	0	1	3	6	1	16	0			
Indore	1730	"	1008.0	975.8	..	29.9	22.0	17.6	20.0	50	..	2.3	..	6.3	0	0	28	3	1	3	1	1	5	8	6	3	0			
	0530	567	1010.6	946.5	..	18.9	17.1	15.7	18.1	83	..	1.9	..	6.3	0	0	22	2	5	2	1	1	4	4	3	9	0			
	0830	"	1011.5	948.3	-0.3	23.5	19.4	16.6	19.2	67	+12	2.3	+0.7	6.6	0	0	21	4	4	5	1	0	1	3	3	10	0			
	1130	"	1010.1	948.0	..	28.5	20.3	15.0	17.5	47	..	2.8	..	11.6	0	2	29	6	8	7	2	2	1	1	4	0	0			
	1730	"	1007.3	945.3	..	28.0	19.6	13.7	16.7	44	..	3.0	..	11.4	0	2	29	6	8	7	2	2	1	1	4	0	0			
Bhopal (Bairagarh)	2330	"	1011.1	947.4	..	20.9	17.7	15.4	17.8	71	..	1.6	..	6.9	0	0	24	1	4	5	0	1	1	7	4	2	7	0		
	0230	523	1009.5	950.7	..	20.6	18.1	16.4	18.9	78	..	1.9	..	3.2	0	0	13	3	6	1	1	0	0	2	0	18	0			
	0530	"	1010.2	951.2	..	19.5	17.5	16.0	18.5	81	..	1.8	..	3.8	0	0	16	4	5	1	0	2	1	2	1	15	0			
	0830	"	1011.3	953.0	-0.7	23.8	19.5	16.9	19.5	67	+5	1.7	-0.1	6.3	0	1	20	3	7	1	3	0	2	2	3	10	0			
	1130	"	1009.9	952.5	..	28.5	20.5	15.5	18.3	48	..	2.2	..	12.8	0	0	29	5	9	5	1	0	2	3	4	2	0			
	1730	"	1007.5	950.1	..	27.4	19.6	14.5	17.1	48	..	2.7	..	11.5	0	0	29	13	9	2	1	1	1	0	4	0	0			
	2330	"	1010.7	952.0	..	21.6	18.4	16.2	18.9	73	..	1.8	..	3.7	0	0	16	2	10	1	2	0	0	1	0	14	0			
Khandwa	0830	318	1011.3	975.5	-0.5	24.1	20.6	18.4	20.9	65	+3	3.6	+1.8	3.3	0	0	26	4	3	1	1	3	6	5	5	0	0			
	1730	"	1007.2	972.1	..	29.6	21.2	16.0	18.3	47	..	3.7	..	4.9	0	0	29	11	6	1	2	0	1	2	6	2	0			
Hoshangabad	0830	302	1011.4	977.3	-1.1	24.3	21.0	19.1	22.1	73	+5	1.9	+0.1	2.2	0	0	17	5	3	1	1	0	4	0	14	0				
	1730	"	1007.6	974.1	..	28.5	22.3	18.9	21.9	58	..	3.1	..	1.3	0	0	13	12	0	1	0	0	0	0	0	18	0			
Betul	0830	653	1011.5	938.8	..	22.2	19.4	17.7	20.6	77	..	3.5	..	3.4	0	0	19	2	2	7	3	0	0	3	2	12	0			
	1730	"	1007.5	935.9	..	25.8	20.1	16.7	18.6	59	..	3.7	..	7.3	0	0	31	10	8	1	0	0	1	2	9	0</td				

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—OCTOBER, 1958 (ASVINA 9—KARTIKA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Cloud amount (Oktas)	Wind speed (km.p.h.)	No. of observations																	
			At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Dry bulb	Wet bulb	Dew point			Relative humidity %	Departure from normal	Mean amount	Mean amount	Mean windspeed km. per hour	N	NE	E	SE	S	SW	W	NW	Calm	Variable			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
Madhya Pradesh (East)—Contd.	0530	393	1009.7	965.1	..	20.5	19.8	19.4	23.1	94	..	3.9	..	1.3	0	0	10	1	1	2	3	1	2	0	0	21	0	
	0830	"	1011.1	966.9	+0.6	23.4	21.2	20.0	23.4	81	+10	3.9	+2.2	2.6	0	0	20	2	3	1	7	1	4	2	0	11	0	
	1130	"	1009.7	966.3	..	27.7	22.6	19.4	23.8	61	..	3.4	..	5.3	0	0	29	7	7	1	0	2	5	4	3	2	0	
	1730	"	1007.4	963.9	..	27.3	22.6	19.9	23.8	65	..	4.1	..	3.6	0	0	23	4	9	2	1	1	4	2	0	8	0	
	2330	"	1010.1	965.7	..	22.1	21.0	20.4	23.6	90	..	3.0	..	1.4	0	0	9	0	0	2	4	0	2	1	0	22	0	
	Mandla	0830	443	1011.4	961.6	..	22.2	20.8	20.1	23.5	88	..	5.0	..	3.2	0	0	20	3	2	2	3	2	1	0	4	11	3
Pendua	0530	625	1009.5	939.7	..	20.2	19.0	18.1	21.1	88	..	5.0	..	4.0	0	0	19	6	2	2	0	1	4	1	3	12	0	
	0830	"	1010.8	941.5	-1.2	22.9	20.5	19.1	22.4	80	+13	4.7	+2.3	5.0	0	0	30	9	1	1	2	5	3	4	5	1	0	
	1130	"	1009.6	941.1	..	26.3	21.3	18.5	28.4	64	..	4.9	..	7.6	0	0	31	11	4	3	3	4	2	1	3	0	0	
	1730	"	1007.5	938.8	..	24.8	21.0	19.1	22.1	72	..	4.8	..	5.1	0	0	29	11	2	2	2	3	5	2	2	2	0	
Ambikapur	0830	611	1010.8	943.2	..	23.8	21.2	19.7	23.4	78	..	3.7	..	4.8	0	0	21	1	7	3	2	3	4	1	0	10	0	
	1730	"	1007.4	940.5	..	25.5	21.6	19.5	23.0	71	..	3.3	..	6.9	0	1	29	12	2	0	3	4	5	2	2	1	0	
Champa	0830	245	1011.0	983.3	..	24.9	22.9	21.7	26.6	82	..	4.2	..	3.8	0	0	23	8	2	4	2	1	1	3	2	8	0	
Raigarh	0830	220	1010.5	985.7	..	26.0	23.4	22.1	26.8	80	..	4.3	..	3.2	0	0	28	0	10	2	10	2	3	0	1	3	0	
	1730	"	1006.9	982.3	..	28.5	24.8	23.1	28.4	73	..	4.3	..	3.7	0	0	28	2	5	1	11	1	2	3	3	3	0	
Rajipur	0530	298	1008.9	975.1	..	23.1	22.1	21.6	25.0	92	..	5.3	..	3.4	0	0	20	1	6	4	2	2	1	0	11	0		
	0830	"	1010.5	977.0	-0.9	25.5	22.8	21.3	25.7	79	+8	4.7	+2.4	6.0	0	0	28	8	3	6	4	1	2	2	3	0	0	
	1130	"	1009.4	976.3	..	28.7	23.3	20.4	25.3	59	..	4.5	..	8.2	0	0	30	6	5	7	2	3	1	2	4	1	0	
	1730	"	1007.1	973.9	..	27.8	23.4	20.8	25.3	67	..	5.0	..	4.3	0	0	21	2	5	7	1	1	2	2	2	10	0	
	2330	"	1009.5	975.9	..	24.6	22.5	21.4	25.2	85	..	4.3	..	4.4	0	0	20	3	3	6	1	2	2	0	3	11	0	
Kanker	0830	402	1010.6	965.6	-0.7	24.3	22.1	20.9	25.2	80	+1	3.9	+0.6	0.6	0	0	5	2	0	0	0	0	1	1	1	26	0	
	1730	"	1007.0	962.6	..	27.2	23.2	21.0	24.8	70	..	4.5	..	0.3	0	0	2	0	0	1	0	0	1	0	0	29	0	
Jagdalpur (P.B.O.)	0530	552	1008.6	946.9	..	21.2	20.5	20.2	23.7	94	..	5.6	..	1.2	0	0	9	0	4	0	2	0	1	0	2	22	0	
	0830	"	1010.0	948.7	-0.8	23.9	21.7	20.7	24.1	82	+3	5.9	+2.7	3.4	0	0	22	2	10	2	2	1	1	2	2	9	0	
	1130	"	1008.4	947.7	..	27.3	22.5	20.9	23.7	66	..	5.2	..	6.5	0	3	21	5	10	3	0	2	2	2	0	7	0	
	1730	"	1006.7	945.9	..	25.5	22.2	20.6	24.3	75	..	6.6	..	3.0	0	0	19	3	8	3	0	1	2	2	0	12	0	
Gujarat		2330	"	1009.5	947.9	..	22.1	21.1	20.6	24.5	91	..	4.7	..	1.2	0	0	9	2	4	2	0	0	1	0	0	22	0
Deesa	0830	136	1011.5	996.0	-0.4	25.1	21.6	19.6	22.9	71	..	2.9	..	6.3	0	0	31	0	9	5	7	4	0	3	3	0	0	
	1730	"	1008.0	992.9	..	31.8	23.0	17.6	21.0	46	..	2.9	..	6.6	0	0	31	2	1	3	10	6	1	4	4	0	0	
Idar	0830	219	1011.4	986.6	..	25.8	21.1	17.9	21.2	65	..	2.1	..	2.7	0	0	15	7	4	4	0	0	0	0	0	16	0	
	1730	"	1008.1	983.8	..	30.3	22.6	17.7	21.0	49	..	2.0	..	2.8	0	0	22	3	0	7	1	3	1	5	2	9	0	
Ahmedabad	0230	55	1009.3	1003.0	..	23.3	21.8	20.8	25.0	86	..	1.1	..	3.2	0	0	14	2	2	2	1	0	4	3	0	17	0	
	0530	"	1009.4	1003.0	..	22.3	21.1	20.3	24.1	89	..	1.2	..	3.0	0	0	13	1	5	4	1	0	0	1	1	18	0	
	0830	"	1011.2	1005.0	-0.7	25.3	22.7	21.2	25.6	78	+14	2.4	+1.1	5.7	0	0	22	2	7	5	3	1	0	1	3	9	0	
	1130	"	1011.2	1005.1	..	31.0	24.2	20.5	24.6	55	..	2.1	..	9.7	0	0	29	3	6	7	3	2	0	3	5	2	0	
	1730	"	1008.1	1002.0	..	31.5	24.1	20.1	23.8	53	..	2.5	..	5.7	0	0	26	4	8	5	2	1	1	3	2	5	0	
	2330	"	1010.2	1003.9	..	24.3	22.5	21.4	25.8	84	..	1.4	..	3.1	0	0	12	1	1	2	2	2	1	1	19	0		
Dhadad	0830	333	1011.5	973.9	..	23.5	20.8	19.0	22.3	77	+6	1.3	-0.8	7.7	0	2	24	1	1	9	3	4	3	1	5	0		
	1730	"	1007.8	971.1	..	29.4	22.3	17.9	21.1	53	..	1.6	..	10.1	0	0	30	5	4	1	0	3	9	7	1	1	0	
Baroda	0530	34	1009.3	1005.3	..	22.3	21.7	21.2	25.6	94	..	1.2	..	0.9	0	0	8	0	3	1	0	2	0	2	0	23	0	
	0820	"	1011.2	1007.2	..	25.8	23.2	21.8	26.3	79	+7	1.6	+0.2	1.2	0	0	12	2	5	2	1	1	0	0	0	19	0	
	1130	"	1011.1	1007.2	..	31.2	24.8	21.6	26.0	58	..	2.0	..	1.7	0	0	13	1	2	3	1	1	3	2	0	18	0	
	1730	"	1008.1	1004.2	..	30.2	24.9	22.3	27.2	64	..	2.1	..	2.0	0	0	14	0	4	2	1	0	1	4	2	17	0	
	2330	"	1010.1	1006.1	..	23.9	22.5	21.6	26.1	87	..	1.3	..	0.5	0	0												

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—OCTOBER, 1958 (ASVINA 9—KARTIKA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.			Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mb.			Cloud amount (Oktas)			Wind speed (km.p.h.)			No. of observations															
	1	2	3	At mean sea level or height in g.p.m. of nearest standard isobaric level			At station level			Departure from normal			Relative humidity %			Departure from normal			Mean amount			Mean wind speed in km. per hour			Wind direction									
				4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28						
Saurashtra and Kutch																																		
Naliya	0830	..	..	..	..	..	24.6	22.8	21.8	26.3	85	..	3.0	..	6.5	0	1	22	6	5	4	3	0	3	0	2	8	0	0
	1730	29.7	23.4	19.7	23.7	58	..	2.4	..	14.7	0	5	24	4	2	3	1	2	3	1	2	0	1	2	0				
Bhuj (P.B.O.)	0230	106	1009.4	997.4	..	..	24.5	21.8	20.3	23.9	78	..	1.4	..	2.7	0	0	16	0	2	1	2	3	2	5	3	1	15	1			
	0530	..	1009.4	997.3	..	..	23.4	21.4	20.4	24.0	84	..	0.9	..	2.7	0	0	26	1	4	1	2	4	5	5	4	5	0	0			
	0830	..	1011.2	999.2	-0.5	..	25.6	22.4	20.7	24.5	75	+16	1.8	+0.7	5.2	0	0	26	1	4	1	2	4	5	5	4	5	0	0					
	1130	..	1011.2	999.5	..	..	30.8	23.1	18.5	21.9	49	..	1.8	..	8.5	0	0	31	6	6	1	3	3	1	5	6	0	0	0			
	1730	..	1008.0	996.3	..	..	31.7	22.9	17.5	20.8	45	..	2.8	..	8.9	0	1	30	6	3	3	2	2	4	4	7	0	0	0			
	2330	..	1010.4	998.4	..	..	25.0	22.9	20.1	24.0	73	..	1.3	..	4.1	0	0	20	1	0	1	3	3	7	5	0	11	0	0			
Bhuj (Aerodrome)	0830	80	1011.3	1002.1	..	..	25.6	22.5	20.7	24.8	76	..	2.0	..	6.6	0	0	24	0	0	2	4	4	3	8	3	7	0	0			
	1130	..	1011.3	1002.3	..	..	30.3	22.9	18.7	22.0	51	..	2.0	..	11.3	0	2	29	7	2	2	4	2	2	5	7	0	0	0			
	1730	..	1908.1	999.2	..	..	31.7	22.7	17.2	20.2	44	..	2.9	..	10.2	0	1	27	5	3	2	3	3	1	4	6	3	1	0			
Kandla	0830	5	1011.3	1010.7	..	..	26.1	22.7	20.8	24.8	73	..	2.1	..	11.3	0	2	29	2	1	3	1	3	8	4	9	0	0	0			
	1730	..	1008.3	1007.8	..	..	32.1	23.7	18.9	22.4	49	..	2.6	..	15.7	0	9	22	2	1	2	1	4	13	3	5	0	0	0			
Mandvi	0830	9	1011.1	1010.1	..	..	26.0	24.0	22.8	28.3	83	..	1.6	..	13.6	0	5	25	7	5	3	1	2	0	1	11	1	0	0			
	1730	..	1008.0	1007.5	..	..	29.5	26.4	24.7	32.0	78	..	2.5	..	22.2	0	20	11	1	2	1	0	3	7	12	1	0	4				
Dwarka	0830	11	1011.2	1009.9	-0.7	..	26.7	24.1	23.0	28.0	80	+1	3.3	+1.4	8.9	0	0	28	7	6	4	3	1	0	3	4	3	0	0					
	1730	..	1008.8	1007.5	..	..	28.4	24.6	22.8	27.7	72	..	4.5	..	15.3	0	4	27	6	1	2	1	3	1	2	12	5	0	0			
Porbander	0830	7	1010.8	1010.0	..	..	26.0	23.6	22.3	27.1	81	..	3.4	..	9.2	0	0	31	7	1	6	2	0	1	3	11	0	1	0			
	1730	..	1008.1	1007.3	..	..	30.0	24.8	22.1	27.0	65	..	4.0	..	16.6	0	3	28	2	2	1	2	4	3	12	5	0	0				
Porbander (Aerodrome)	0830	7	1011.0	1010.2	..	..	27.5	24.0	22.6	27.0	75	..	2.4	..	15.3	0	7	20	5	5	4	4	0	1	2	6	3	0	0			
	1130	..	1011.2	1010.4	..	..	31.3	25.1	22.4	26.8	61	..	3.0	..	21.9	0	16	14	5	6	2	1	7	3	4	2	0	0	0			
Jamnagar	0530	23	1009.3	1006.7	..	..	23.3	22.0	21.2	25.3	99	..	0.6	..	8.9	0	1	30	0	2	3	5	3	7	7	4	0	0	0			
	0830	..	1011.1	1008.5	-0.6	..	26.5	23.7	22.3	27.1	78	-1	2.4	+0.9	8.5	0	0	29	2	2	3	4	4	3	8	3	2	0						
	1130	..	1011.3	1008.8	..	..	31.4	24.4	20.5	25.0	55	..	2.2	..	16.6	0	11	20	4	7	2	4	2	1	7	4	0	0	0			
Rajkot (Aerodrome)	0830	134	1011.3	996.1	-0.4	..	25.4	22.5	20.7	24.9	77	+6	1.2	-0.6	10.8	0	3	27	3	4	3	3	3	6	5	3	1	0	0					
	1130	..	1010.9	996.0	..	..	30.9	23.0	18.3	21.6	49	..	0.9	..	14.2	0	6	25	4	6	2	5	1	3	4	6	0	0	0			
	1730	..	1007.7	992.9	..	..	31.8	22.5	16.6	19.7	44	..	1.7	..	15.2	0	9	22	5	7	1	1	2	5	2	8	0	0	0			
Surendranagar	0830	74	1011.2	1002.7	..	..	26.3	23.0	21.0	25.4	74	..	2.1	..	5.2	0	0	30	1	9	1	3	0	1	1	14	1	0	0			
	1730	..	1007.7	999.4	..	..	32.6	23.4	17.9	21.3	45	..	3.2	..	5.1	0	3	29	1	16	1	6	0	1	1	4	2	0	0			
Bhavnagar	0830	17	1011.5	1009.5	-0.2	..	25.6	22.9	21.4	25.8	78	+19	1.6	-0.6	2.8	0	0	27	2	3	0	2	0	3	6	11	4	0	0					
	1730	..	1008.2	1006.3	..	..	32.0	23.7	18.9	22.4	48	..	2.3	..	4.2	0	0	28	0	12	4	6	4	1	0	1	3	0	0			
Bhavnagar (Aerodrome)	0830	11	1011.0	1009.8	26.5	23.0	21.0	25.3	73	..	1.7	..	9.3	0	1	24	5	2	1	0	1	1	8	7	6	0	0	0				
	1130	..	1011.1	1009.9	31.1	24.0	20.3	24.0	54	..	1.7	..	15.5	0	4	27	2	12	7	2	4	1	2	1	0	0	0	0				
	1730	..	1007.9	1006.7	32.1	23.1	17.6	20.8	45	..	1.9	..	16.9	0	7	27	0	12	5	5	1	1	0	2	0	0	0	0				
Mahuva	0830	16	1010.8	1009.0	..	..	25.8	23.8	23.0	28.0	84	..	1.9	..	5.1	0	1	19	0	8	2	1	1	1	6	11	0	0	0			
	1730	..	1008.2	1006.4	30.6	25.8	23.4	29.4	68	..	2.4	..	12.8	0	1	30	0	4	9	4	7	6	1	0	0	0	0	0				
Keshod	0830	51	1011.3	1005.5	26.4	23.7	22.5	27.0	79	..	2.1	..	12.2	0	2	26	5	8	9	2	1	0	3	0	3	0	0	0				
	1130	..	1011.3	1005.5	..	..	30.7	24.7	22.3	26.2	62	..	2.6	..	16.9	0	6	25	5	6	1	2	5	3	6	3	0	0	0			
Veraval	0230	8	1008.9	1008.0	..	..	24.1	22.6	21.8	26.1	87	..	0.3	..	11.2	0	3	27	16	2	2	0	4	1	0	5	1	0	0			
	0530	..	1008.9	1008.0	..	..	23.6	22.0	21.1	25.2	87	..	0.9	..	11.8	0	5	24	17	3	2	0	5</									

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—OCTOBER, 1958 (ASVINA 9—KARTIKA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.		Height of barometer cistern above mean sea level in metres		Mean pressure in millibars		Mean temperature in °C			Cloud amount (Okta)			Wind speed (km. p.h.)		No. of observations															
					At mean sea level or height in g.p.m. of nearest standard isobaric level		Dry bulb			Departure from normal			Mean amount		Departure from normal		Mean wind speed km. per hour		Wind direction											
	1	2	3	4	5	6	7	8	9	Dew point	Vapour pressure in mbs.	Relative humidity %	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Konkan—Contd.																														
Alibag . . .	0830	7	1010.4	1009.6	-0.7	27.0	24.3	22.8	28.1	79	+3	2.5	-1.4	4.9	0	0	24	7	4	5	7	0	0	1	0	7	0	0		
Harnai . . .	0830	20	1010.2	1007.9	-0.3	26.7	23.9	22.5	27.4	79	+5	3.8	..	5.7	0	1	19	5	3	5	2	2	0	0	3	11	0	0		
Retnagiri . . .	0830	35	1006.6	1006.6	-0.4	26.2	23.8	22.6	27.5	81	..	4.4	..	18.2	0	7	24	4	1	0	2	2	0	2	20	0	0			
Deogad . . .	0830	36	1010.5	1006.4	-0.4	26.0	24.0	22.9	28.2	83	-1	4.3	+0.1	7.6	0	2	27	6	7	9	3	1	0	0	3	2	0			
Vengurla* . . .	0230	9	1008.7	1007.7	..	24.2	23.3	22.9	28.0	93	..	2.7	..	2.7	0	2	6	4	0	0	2	1	0	0	1	23	0			
	0530	"	1008.8	1007.8	..	23.5	22.8	22.4	27.2	94	..	2.8	..	2.5	0	1	6	1	0	0	2	1	0	1	2	24	0			
	0830	"	1010.5	1009.5	..	25.7	23.7	22.7	27.8	84	..	4.0	..	4.5	0	0	15	10	2	1	3	0	0	0	3	12	0			
	1130	"	1010.3	1009.3	..	30.2	24.9	22.3	27.2	65	..	3.7	..	12.1	0	3	22	7	1	0	5	4	3	4	7	0	0			
	1730	"	1007.7	1006.7	..	28.4	24.9	23.2	28.6	74	..	3.9	..	10.5	0	1	24	0	0	1	2	2	3	14	9	0				
Maharashtra																														
Nandurbar . . .	0830	206	1011.4	988.2	..	26.7	21.8	18.7	22.1	63	..	2.8	..	5.7	0	0	26	0	8	8	0	0	9	1	0	5	0			
Jalgaon . . .	0830	201	1011.5	988.5	..	23.9	20.7	18.5	21.7	73	..	2.2	..	7.5	0	0	27	0	2	7	4	3	1	8	2	4	0			
Malegaon . . .	0830	437	1011.3	962.4	-0.7	24.6	20.4	17.7	20.6	67	+4	2.3	-0.3	3.3	0	0	20	3	1	1	2	1	0	8	4	11	0			
Devlali . . .	0830	571	1011.8	948.1	..	22.9	20.2	18.7	21.6	77	..	2.5	..	3.8	0	0	18	5	3	2	1	2	4	0	1	13	0			
	1730	"	1007.4	945.1	..	28.5	21.1	16.7	19.6	53	..	3.6	..	9.8	0	1	27	1	8	2	0	0	2	6	9	3	0			
Aurangabad . . .	0830	581	1011.0	946.9	-0.7	25.7	20.0	16.3	19.3	58	0	2.7	-0.3	7.5	0	6	31	3	4	13	2	0	2	6	1	0	0			
	1730	"	1006.8	943.6	..	28.9	20.3	14.6	17.5	43	..	3.5	..	10.0	0	2	28	11	12	2	2	0	0	0	3	1	0			
Aurangabad . . .	0230	579	1009.4	944.5	..	20.7	17.4	15.2	17.4	72	..	1.6	..	3.2	0	1	8	2	0	1	2	0	0	2	22	0				
(Chikalthana Aerodrome). . .	0530	"	1009.9	944.8	..	19.4	16.9	15.1	17.5	78	..	1.9	..	2.9	0	0	10	0	2	1	0	0	0	0	7	21	0			
	0830	"	1010.6	946.6	..	25.0	19.8	16.5	19.2	61	..	2.5	..	4.7	0	1	16	2	4	3	3	0	0	0	3	2	14	0		
	1130	"	1009.3	946.3	..	29.3	20.7	15.5	18.1	45	..	2.8	..	8.4	0	0	24	4	6	9	2	1	1	0	7	0	0			
	1730	"	1006.1	943.2	..	29.4	20.2	14.4	17.0	43	..	4.0	..	9.8	0	2	26	9	14	1	0	0	1	1	2	3	0			
	2330	"	1010.2	945.7	..	22.4	18.1	15.2	17.5	65	..	1.8	..	4.3	0	2	10	2	4	3	0	0	1	1	19	0				
Ahmednagar . . .	0830	657	1011.2	938.5	-0.7	23.1	19.4	17.2	19.9	71	+7	3.1	+0.6	3.6	0	0	28	0	3	0	3	0	0	3	0	19	3			
Parbhani . . .	0830	423	1011.1	963.8	..	24.8	21.1	18.7	22.1	70	..	3.5	..	4.6	0	0	31	9	7	3	0	1	1	4	6	0	0			
Poona . . .	0530	559	1009.7	946.9	..	20.6	19.5	18.9	21.9	90	..	2.4	..	1.1	0	0	7	0	0	1	1	0	4	1	0	24	0			
	0830	"	1011.2	948.8	-0.8	23.1	20.6	19.4	22.4	80	+3	3.0	-0.2	0.9	0	0	7	0	0	1	1	2	1	2	0	24	0			
	1130	"	1009.3	948.2	..	28.8	21.3	17.0	19.8	51	..	2.9	..	5.1	0	0	22	1	2	6	8	2	0	1	2	9	0			
	1730	"	1006.1	945.3	..	29.1	22.0	18.2	21.3	54	..	3.4	..	3.9	0	0	21	1	2	0	0	6	5	6	10	0				
	2330	"	1010.2	947.9	..	22.8	20.7	19.5	22.8	82	..	2.4	..	1.3	0	0	10	0	0	2	0	0	0	6	1	1	21	0		
Poona (Lohagaon Aerodrome). . .	0230	593	1009.4	943.0	..	20.9	19.6	18.9	21.8	88	..	3.0	..	5.0	0	1	15	0	0	3	1	0	0	10	2	15	0			
	0530	"	1009.9	943.3	..	19.7	18.8	18.3	20.9	92	..	3.2	..	4.9	0	1	16	1	0	3	2	0	1	9	1	14	0			
	0830	"	1011.2	945.1	..	22.8	20.1	18.6	21.5	78	..	3.7	..	4.2	0	2	14	0	1	2	2	0	1	1	7	3	15	0		
	1130	"	1009.4	944.7	..	28.5	20.4	15.3	18.1	47	..	3.5	..	8.6	0	2	26	1	3	9	8	0	0	6	1	3	0			
	1730	"	1006.2	941.6	..	28.4	20.5	15.6	18.3	50	..	4.2	..	12.2	0	4	22	1	2	4	1	1	1	8	8	5	0			
	2330	"	1010.5	944.3	..	21.9	19.8	18.4	21.6	82	..	2.8	..	6.0	0	1	20	1	0	2	1	1	0	13	3	10	0			
Baramati . . .	0830	551	1011.0	949.8	..	24.1	19.8	17.3	19.9	68	..	3.1	..	7.2	0	2	26	5	1	4	3	2	0	4	9	3	0			
	1730	"	1005.4	945.8	..	30.7	20.9	15.0	17.7	41	..	3.7	..	10.9	0	1	27	6	6	5	2	1	0	0	3	5	9	0		
Shrivardhan . . .	0830	521	1010.3	952.4	..	24.0	19.6	16.9	19.5	66	..	2.7	..	5.4	0	0	22	5	6	2	1	0	0	3	5	9	0			
	1730	"	1005.0	948.6	..	30.7	20.7	14.3	17.1	40	..	3.6	..	8.0	0	0	27	5	6	2	1	0	1	6	6	4	0			
	0530	479	1009.3	955.5	..	21.7	19.1	17.3	20.2	77	..	2.9	..	10.0	0	2	23	4	7	3	3	0	1	2	5	6	0			
	0830	"	1010.7	957.4	-0.7	24.6	20.2	17.7	20.3	67	+3	4.1	+1.0	9.4	0	0	31	0	15	0	3	0	0	6	7	0	0			
	1130	"	1009.2	956.7	..	29.4	21.7	17.6	20.2	51	..	3.4	..	14.9	0	5	24	9	7	2	3	0	5	0	3	2	0			
	1730	"																												

TABLE III.—SUMMARY OF OBSERVATIONS AT FIXED HOURS—OCTOBER, 1958 (ASVINA 9—KARTIKA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars						Mean temperature in °C			Vapour pressure in mb.			Cloud amount (Octas)			Wind speed (km.p.h.)	No. of observations												
			At station level			Departure from normal			Dry bulb			Wet bulb			Dew point				Relative humidity %			Departure from normal			Mean amount			Departure from normal			
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23	24	25	26	27	28
Vidarbha																															
Buldhana	0830	650	1010.1	938.2	..	23.3	19.6	16.9	20.1	70	..	3.1	..	4.9	0	0	26	0	7	1	3	0	1	0	14	5	0				
	1730	"	1006.5	935.9	..	28.2	21.1	16.8	19.9	55	..	3.3	..	2.8	0	0	21	0	9	0	0	0	1	0	11	10	0				
Akola	0830	282	1010.6	978.8	-1.1	24.3	20.3	17.7	19.9	67	+6	3.5	+1.1	1.7	0	0	15	0	3	2	0	0	0	1	4	5	16	0			
	1130	"	1009.6	978.4	..	30.2	21.8	16.5	19.4	46	..	3.4	..	3.1	0	0	17	3	6	0	0	0	0	0	5	3	14	0			
	1730	"	1006.3	975.3	..	31.8	21.5	14.3	17.3	36	..	4.9	..	4.2	0	0	28	4	2	1	2	0	0	0	3	15	3	1			
	0530	309	1008.7	973.5	..	20.9	18.5	16.7	19.4	78	..	2.2	..	3.5	0	0	21	0	9	6	3	0	0	1	8	0	10	0			
Akola (Aerodrome)	0530	309	1009.4	974.5	..	23.6	19.9	17.3	20.4	70	..	2.1	..	2.4	0	0	15	0	7	4	0	0	0	2	2	0	16	0			
	2330	"	1009.4	965.8	-0.8	25.0	20.7	17.9	21.0	66	+8	3.4	+1.0	6.2	0	0	27	2	13	2	0	1	0	0	3	1	4	0			
Amravati	0830	370	1010.9	969.4	..	29.4	21.0	15.4	18.0	45	..	4.5	..	7.6	0	0	31	4	12	6	3	1	0	0	5	0	0	0			
	1730	"	1006.5	965.8	..	25.0	20.9	18.3	21.3	69	..	3.5	..	6.0	0	0	30	11	10	3	0	2	1	3	0	1	0				
Yeotmal	0830	451	1010.5	960.2	..	27.8	21.9	18.3	21.6	59	..	3.6	..	7.2	0	0	27	8	9	3	2	0	1	3	2	3	0				
	1730	"	1006.9	957.2	..	28.8	21.9	18.3	21.6	59	..	3.6	..	6.0	0	0	30	11	10	3	0	2	1	3	0	1	0				
	0230	310	1008.8	973.5	..	21.8	20.5	19.7	22.7	89	..	3.1	..	5.6	0	0	27	6	6	3	0	0	0	1	11	4	0				
	0530	"	1009.3	973.9	..	20.9	19.9	19.3	22.5	91	..	3.9	..	5.8	0	0	26	11	4	2	1	0	1	0	7	5	0				
Nagpur	0830	"	1010.8	975.8	-1.0	24.3	21.5	19.8	23.7	77	+9	4.1	+1.7	6.8	0	0	28	9	6	3	2	0	2	0	6	3	0				
	1130	"	1009.2	975.1	..	29.2	23.1	19.9	23.7	59	..	3.6	..	8.7	0	0	30	7	8	4	2	2	4	1	3	0	0				
	1730	"	1007.1	972.6	..	28.3	23.1	20.3	24.1	64	..	4.3	..	6.2	0	0	25	7	9	3	3	1	0	0	2	1	5	0			
	2330	"	1010.0	974.7	..	22.6	21.0	20.1	23.7	86	..	3.4	..	4.5	0	0	26	10	7	4	0	0	1	0	0	4	5	0			
Gondia	0830	313	1011.1	975.8	..	24.3	21.9	20.3	25.3	80	..	3.7	..	2.6	0	0	26	8	7	0	2	1	3	0	3	5	2				
	1730	"	1007.0	973.0	..	28.0	22.9	20.1	24.1	63	..	4.3	..	2.1	0	0	18	6	5	0	0	0	2	1	4	13	0				
Brahmapuri	0830	229	1010.4	984.5	..	24.5	22.7	21.6	26.1	85	..	4.7	..	4.3	0	0	25	1	12	3	2	1	3	0	3	6	0				
	1730	"	1007.1	981.6	..	28.2	23.3	20.8	24.8	66	..	4.7	..	4.4	0	0	25	9	8	4	0	2	2	0	0	6	0				
Chanda	0830	193	1010.4	988.5	-1.3	25.3	22.4	21.4	24.2	76	+3	3.8	+1.5	5.5	0	0	27	9	7	2	2	2	2	1	4	0					
	1730	"	1006.8	985.2	..	27.7	24.4	22.7	27.9	75	..	4.5	..	3.2	0	0	19	5	6	4	2	0	2	0	0	12	0				
Sironcha	0830	123	1010.4	996.3	..	25.8	23.6	22.6	27.3	83	..	5.2	..	5.0	0	0	29	12	5	3	3	2	0	0	0	4	2	0			
	1730	"	1006.6	992.8	..	29.7	24.4	21.7	26.3	64	..	5.2	..	5.7	0	0	27	10	7	4	1	1	1	0	3	4	0				
Coastal Andhra Pradesh	Andhra																														
	Nellore	0530	20	1007.2	1004.9	..	25.4	24.8	24.5	31.0	95	..	5.6	..	3.6	0	0	17	0	1	0	4	0	2	3	7	14	0			
		0830	"	1009.1	1006.9	-1.4	27.4	25.7	24.9	31.7	87	+8	6.0	+1.0	4.2	0	0	21	1	1	0	3	2	0	5	9	10	0			
		1130	"	1008.3	1006.1	..	30.0	26.4	24.9	31.5	75	..	6.5	..	6.6	0	0	30	6	4	1	3	0	1	6	9	1	0			
		1730	"	1005.9	1003.7	..	28.7	26.4	25.5	32.7	83	..	6.6	..	5.1	0	0	23	2	3	5	4	0	0	1	3	8	0			
		2330	"	1008.4	1006.1	..	26.5	25.7	25.5	32.3	93	..	5.0	..	1.4	0	0	3	1	1	0	2	0	0	0	4	23	0			
	Ongole	0830	12	1009.3	1008.0	..	27.7	26.3	25.6	33.1	89	..	5.7	..	3.5	0	0	14	6	2	1	0	0	1	0	5	16	0			
		1730	"	1005.9	1004.6	..	29.0	27.9	27.1	36.6	91	..	5.4	..	3.2	0	0	13	5	5	0	7	0	0	0	1	13	0			
	Rentachintala	0830	106	1009.9	998.0	..	26.4	24.1	23.1	28.1	82	+3	5.6	+0.5	1.4	0	0	13	1	0	3	1	2	0	1	1	18	0			
		1730	"	1006.0	994.2	..	29.6	24.7	22.2	27.9	66	..	6.3	..	2.2	0	0	16	7	0	6	0	1	1	1	1	15	0			
Gannavaram	0230	24	1006.7	1004.1	..	25.3	24.5	24.0	30.1	93	..	4.5	..	2.7	0	0	1	9	1	4	1	1	0	0	0	1	1	21	0		
	0530	"	1007.2	1004.6	..	25.1	24.3	24.0	29.8	93	..	5.5	..	4.0	0	0	14	2	5	6	0	0	0	0	0	1	17	0			
	0830	"	1009.2	1006.6	..	27.0	24.8	23.8	29.6	83	..	5.1	..	8.2	0	0	24	7	7	2	0	1	1	0	1	1	2	7	0		
	1130	"	1008.3	1005.8	..	29.3	25.4	23.5	29.3	72	..	5.5	..	3.3	0	3	24	4	10	3	1	1	0	0	0	4	4	0			
	1730	"	1006.0	1003.4	..	28.2	25.3	24.0	29.9	79	..	6.3	..	7.5	0	0	22	2	8	7	3</										

TABLE III.—SUMMARY OF OBSERVATIONS AT FIXED HOURS—OCTOBER, 1958 (ASVINA 9—KARTIKA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars				Mean temperature in °C				Cloud amount (Oktas)				No. of observations														
			At mean sea level or height in g.p.m. or nearest standard isobaric level		At station level		Departure from normal		Dry bulb		Wet bulb		Dew point		Vapour pressure in mbs.		Relative humidity %		Departure from normal		Mean amount		Wind speed (km.p.h.)		Wind direction				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	Calm	Variable
Coastal Andhra Pra-desh—Contd. Calingapatam	0830	6	1009.5	1008.8	-1.4	26.9	25.1	24.4	30.4	85	+4	(c) 6.2	+2.8 (d) 6.4	(c) 7.6 (d) 7.9	0	0	28	1	4	4	0	0	0	9	10	0	0	0	0
Telangana	1730	"	1007.3	1006.6	..	28.4	25.6	24.0	30.4	79	..	6.4	..	7.9	0	0	27	0	6	12	7	0	1	0	1	0	0	0	
Ramagundam	0830	156	1010.1	992.4	..	26.1	23.4	1.6	25.6	79	..	4.0	..	4.1	0	0	26	17	1	0	3	2	0	0	3	5	0	0	
Nizamabad	1730	"	1006.0	988.6	..	29.7	24.1	24.1	26.4	62	..	4.5	..	5.5	0	0	29	14	8	2	2	0	0	0	2	1	2	0	
Mahabubnagar	0830	381	1010.4	967.7	-1.0	25.1	21.7	20.3	23.1	74	+4	3.6	+1.0	1.5	0	0	14	1	2	0	2	0	2	2	5	17	0		
Hyderabad (Begumpet Aerodrome)	1730	"	1006.2	964.4	..	29.5	23.4	20.5	23.7	59	..	4.3	..	2.6	0	0	25	2	14	0	2	3	1	0	3	6	0	0	
0230	545	1008.0	947.5	..	21.5	20.5	19.9	23.4	91	..	4.5	..	4.4	0	1	17	8	1	2	3	0	1	0	3	13	0	0		
0530	"	1008.8	948.0	..	21.1	20.2	19.7	23.1	92	..	5.0	..	4.8	0	0	14	4	1	2	1	1	1	0	4	17	0	0		
0830	"	1010.1	949.6	-0.8	24.4	21.7	20.3	23.9	79	+8	5.6	+2.2	9.9	0	2	23	8	6	1	2	1	2	2	2	3	6	0	0	
1130	"	1008.7	949.1	..	27.8	22.3	19.3	22.8	62	..	5.7	..	14.8	0	8	23	9	11	3	2	0	4	2	0	0	0	0	0	
1730	"	1006.3	946.7	..	27.1	21.9	19.1	22.3	63	..	5.1	..	7.9	0	1	25	10	5	1	2	0	5	1	2	5	0	0	0	
Hakimpet	2330	"	1009.7	949.0	..	22.3	20.7	19.8	23.2	87	..	3.7	..	5.1	0	0	19	10	3	2	2	0	0	0	2	12	0	0	
0530	613	1008.5	940.4	..	21.5	20.5	20.0	23.4	91	..	4.8	..	7.3	0	0	29	11	6	2	2	0	1	4	3	2	0	0	0	
0830	"	1009.7	942.0	..	24.0	21.3	19.9	23.3	79	..	5.1	..	10.8	0	2	29	10	7	3	1	1	3	3	3	0	0	0	0	
1130	"	1008.5	941.7	..	27.6	22.2	19.3	22.8	63	..	5.2	..	13.8	0	4	27	9	9	3	2	0	2	3	3	0	0	0	0	
1730	"	1006.1	939.4	..	27.5	22.4	19.5	23.5	65	..	5.0	..	10.5	0	2	29	14	7	1	3	0	2	3	1	0	0	0		
Hanamkonda	0830	269	1009.8	979.6	-1.5	25.4	23.2	22.0	26.7	82	+9	3.8	+0.5	6.4	0	0	31	17	1	1	1	6	1	0	4	0	0	0	
Bhadrachallam	1730	"	1006.6	976.8	..	28.7	23.7	20.9	25.3	65	..	3.4	..	5.7	0	0	31	13	7	3	2	1	0	3	0	0	0	0	
0830	111	1009.8	997.3	..	26.7	24.6	23.5	29.2	84	..	5.1	..	5.4	0	0	23	7	9	1	2	1	2	0	1	8	0	0		
Khammameth	1730	"	1006.4	994.0	..	29.6	25.6	23.9	29.6	72	..	5.7	..	5.0	0	0	22	7	9	2	1	0	2	0	1	9	0	0	
Rayalaseema	1730	"	1006.0	993.5	..	29.2	24.9	23.3	29.7	71	..	5.9	..	5.8	0	1	25	9	2	8	0	1	2	1	3	5	0	0	
Arogavaram	0830	701	1009.6	932.6	..	23.6	21.0	19.7	23.1	79	..	5.2	..	7.5	0	2	21	6	2	0	0	2	0	2	11	8	0	0	
Cuddapah	1730	"	1005.8	929.7	..	26.3	21.3	18.5	21.8	64	..	6.6	..	4.9	0	0	27	9	4	2	0	0	1	1	10	4	0	0	
Anantapur	0830	130	1010.0	995.3	-1.0	27.1	24.4	23.1	28.5	80	+7	4.8	+0.6	1.5	0	0	6	0	2	1	0	0	0	2	1	25	0	0	
1730	"	1006.0	991.5	..	29.7	25.6	23.7	29.3	71	..	5.3	..	4.1	0	0	18	1	3	7	0	0	0	1	6	13	0	0		
Kurnool	0830	281	1010.0	978.5	-0.8	25.2	22.8	21.7	25.9	80	+8	5.6	+1.9	6.1	0	2	22	1	4	1	1	5	5	6	7	0	0		
Madras State	1730	"	1005.6	974.5	..	30.5	23.6	19.9	23.5	55	..	5.6	..	3.9	0	0	24	6	4	5	5	1	0	1	2	7	0	0	
Palayamcottai	0830	51	1009.7	1004.0	..	29.1	24.0	21.5	25.7	64	..	5.4	..	6.8	0	1	29	6	1	1	0	1	1	13	7	1	0		
Tuticorin	1730	"	1006.6	1000.9	..	29.1	24.2	21.9	26.3	67	..	7.0	..	12.0	0	5	26	3	2	3	1	2	7	8	5	0	0		
Pamban	0830	11	1009.9	1008.6	-0.7	28.3	25.8	24.8	31.3	81	+1	5.3	+1.7	6.3	0	2	19	0	0	0	3	4	7	3	4	10	0	0	
Mathurai	0830	133	1009.4	994.4	-1.5	27.5	24.0	22.4	27.0	74	0	6.1	+1.0	3.0	0	0	31	0	2	0	0	0	1	0	28	0	0		
Mathurai* (Aerodrome)	1730	"	1005.6	990.9	..	30.6	25.0	22.4	27.1	63	..	6.9	..	3.0	0	0	31	0	8	0	0	11	6	9	0	3	0	0	
0530	131	"																											
1130	"																												
1730	"																												
Nagapattinam	0830	9	1009.8	1008.7	-0.9	27.5	25.0	24.0	29.6	81	+2	6.0	+1.0	5.6	0	0	27	0	1	0	0	0	2	9	9	6	4	0	
Tiruchirapalli	0230	88	1007.3	997.3	..	25.6	23.7	22.8	27.6	85	..	4.2	..	8.1	0	1	25	0	1	2	1	2	3	13	3	5	1		
0580	"	1007.6	997.6	..	25.1	23.3	22.5	27.2	85	..	5.7	..	9.5	0	2	25	2	1	1	1	0	0	0	16	6	4	0		
0830	"	1009.7	999.7	-1.3	27.0	23.8	22.5	27.2	76	-3	5.6	+1.1	12.2	0	6	21	2	0	0	0	0	0	0	16	9	4	0		
1130	"	1008.6	998.8	..	30.2	24.9	22.5	27.4	64	..	5.6	..	15.1	0	7	23	2	1	1	1	0	1	1	11	12	1	1		
1730	"	1005.7	995.8	..	29.9	24.7	22.2	27.0	65	..	6.7	..	11.5	0	0	29	2	5	6	3	2	0	3	8	2	0	0		
2330	"	1009.0	999.0	..	26.2	24.0	23.1	27.8	83	..	5.7	..	10.3	0	2	23	0	1	3	1	4	6	8	2	6	0	0		
Coimbatore	0830	409	1010.2	964.6	-0.8	25.1	22.6	21.4	25.4	80	-1	6.1	+1.8																

TABLE III.—SUMMARY OF OBSERVATIONS AT FIXED HOURS—OCTOBER, 1958 (ASVINA 9—KARTIKA 9, 1880 SAKA)

531

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Octas)	Wind speed (km. p.h.)	No. of observations														
			At mean sea level or heighting & gain of nearest standard isobaric level			At station level								Wind direction														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madras State—Contd.																												
Coimbatore (Peelamedu Aerodrome)	0530	398	1008.3	963.4	..	22.3	21.7	21.5	25.6	95	..	5.8	..	11.1	0	2	24	0	0	0	0	12	11	2	1	5	0	
	0830	"	1009.9	965.3	..	24.7	22.6	21.5	25.8	83	..	5.0	..	15.7	0	6	25	0	2	0	1	15	13	0	0	0	0	
	1130	"	1008.5	964.6	..	28.8	23.7	21.0	25.2	62	..	5.3	..	16.4	0	8	23	1	5	1	2	9	11	0	0	0	2	
	1730	"	1005.9	961.9	..	27.5	23.4	21.5	25.6	70	..	6.3	..	22.6	0	18	13	0	2	3	3	9	14	0	0	0	0	
Salem . .	2330	"	1009.3	964.6	..	23.3	22.2	21.8	25.3	91	..	5.6	..	16.0	0	10	19	0	0	0	1	15	12	1	0	0	2	
	0530	278	1008.1	976.7	..	23.7	22.5	21.9	26.4	89	..	6.3	..	0.7	0	0	6	0	0	1	0	1	4	0	0	0	25	
	0830	"	1009.8	978.6	-1.2	25.7	23.3	22.0	26.9	80	+2	6.1	+1.5	3.8	0	0	27	0	0	2	0	1	18	6	0	4	0	
	1130	"	1008.7	977.8	..	29.0	24.1	22.4	26.0	65	..	6.6	..	4.6	0	0	25	2	1	3	0	3	6	7	3	6	0	
Kallakurichi . .	1730	"	1005.3	974.7	..	29.2	24.1	21.5	26.6	64	..	6.5	..	1.8	0	0	15	0	1	5	0	0	1	5	3	16	0	
	2330	"	1008.9	977.8	..	25.6	23.4	21.7	26.9	80	..	6.7	..	3.8	0	0	16	0	2	5	1	1	3	4	0	0	15	
	0830	127	1009.2	994.8	..	27.1	24.5	23.3	28.4	80	..	4.5	..	3.0	0	0	22	4	0	0	2	2	9	0	5	9	0	
	1730	"	1005.4	991.3	..	29.4	24.8	22.5	27.9	67	..	5.8	..	6.8	0	0	25	2	3	4	7	1	4	1	3	6	0	
Cuddalore . .	0530	12	1007.1	1005.7	..	25.0	23.9	23.4	28.9	91	..	5.7	..	1.2	0	0	7	0	0	0	2	2	1	0	0	24	0	
	0830	"	1009.1	1007.8	-1.5	27.2	24.8	23.7	29.4	82	+1	6.2	+1.6	2.5	0	0	16	0	1	0	0	4	8	1	2	15	0	
	1130	"	1008.5	1007.2	..	29.6	25.5	23.6	29.3	71	..	5.6	..	3.2	0	0	18	1	3	3	4	2	2	3	0	0	14	
	1730	"	1006.1	1004.8	..	28.4	25.8	24.6	31.2	80	..	5.6	..	3.2	0	0	17	0	1	3	9	2	2	0	0	0	22	
Tirupattur . .	0830	390	1009.4	966.1	..	25.4	23.1	22.0	26.6	80	..	5.1	..	1.6	0	0	9	0	0	0	3	4	1	1	0	22	0	
	1730	"	1005.4	962.4	..	27.2	23.5	21.7	25.9	70	..	(g)	..	6.3	..	1.5	0	0	9	2	2	1	0	0	0	1	14	
	0530	214	1007.9	983.6	..	24.1	23.1	22.6	27.2	91	..	5.6	..	0.8	0	0	7	1	0	2	0	0	0	2	2	24	0	
	0830	"	1009.4	985.3	-1.0	26.2	23.8	22.7	27.6	78	+2	5.9	+2.1	2.3	0	0	19	0	0	0	1	0	8	10	12	0		
Vellore . .	1130	"	1008.2	984.4	..	29.2	24.3	21.9	26.6	66	..	6.2	..	5.0	0	0	29	6	5	1	0	1	12	3	2	0	8	
	1730	"	1005.6	981.9	..	29.1	24.2	21.9	26.4	66	..	7.1	..	5.1	0	0	23	1	8	5	2	2	2	3	0	0	20	
	2330	"	1008.7	984.7	..	26.7	23.8	22.7	27.6	82	..	5.6	..	1.9	0	0	11	1	1	1	2	0	2	3	1	1	20	
	0830	29	1008.9	1005.6	..	27.3	25.1	24.2	30.1	84	..	5.7	..	9.9	0	1	30	5	0	1	2	5	5	5	8	0	0	
Tambaram (Aerodrome)	1730	"	1005.8	1002.5	..	28.4	25.5	24.3	30.2	79	..	5.9	..	19.6	0	10	20	3	5	4	11	2	1	1	3	1	0	
	0530	16	1006.9	1005.2	..	25.7	24.9	24.6	31.0	94	..	5.3	..	7.0	0	4	18	3	0	1	5	4	6	3	9	0		
	0830	"	1007.5	1005.7	..	25.3	24.6	24.4	30.4	94	..	5.9	..	6.6	0	3	23	3	0	1	0	4	5	10	3	5	0	
	1130	"	1009.3	1007.6	-1.3	26.9	25.2	24.4	30.9	86	+6	5.8	+1.2	8.2	0	2	28	6	1	1	0	4	6	3	10	2	2	
Madras . .	1730	"	1008.4	1006.7	..	29.7	25.8	24.1	30.1	73	..	6.4	..	11.2	0	6	23	6	2	2	0	4	3	10	2	2	0	
	2330	"	1006.3	1004.6	..	28.2	25.7	24.6	31.1	82	..	6.1	..	10.9	0	6	23	6	1	10	2	2	5	2	1	2	0	
	0830	"	1008.7	1006.9	..	26.4	25.2	24.7	31.1	91	..	4.9	..	6.5	0	1	23	5	3	0	6	4	1	4	1	7	0	
	0830	6	1008.9	1008.2	..	27.2	25.2	24.4	30.5	85	..	5.6	..	5.8	0	0	27	0	1	0	0	1	11	5	9	4	0	
Coastal Mysore	0830	4	1010.6	1010.1	-0.5	25.2	23.3	23.0	28.1	88	..	4.2	..	3.2	0	0	19	1	1	4	4	2	0	3	4	12	0	
	1730	"	1007.7	1007.2	..	27.4	25.1	24.2	29.9	81	..	3.3	..	7.0	0	0	28	2	0	0	1	3	1	9	11	3	1	
	0830	26	1010.6	1007.7	-0.9	25.1	23.7	23.0	28.1	89	+5	6.1	+1.2	0.6	0	0	5	0	0	2	1	0	0	0	2	26	0	
	1730	"	1007.8	1004.9	..	28.0	25.5	24.4	30.6	81	..	5.4	..	2.4	0	0	22	1	0	0	1	4	0	7	9	9	0	
Mangalore . .	0230	22	1008.6	1006.1	..	24.8	24.0	23.7	29.2	94	..	4.4	..	4.5	0	1	8	4	5	4	3	1	0	0	0	3	0	
	0530	"	1008.8	1006.3	..	24.4	23.8	23.4	29.1	95	..	8.3	..	6.6	0	0	28	7	5	12	3	1	0	0	0	0	3	
	0830	"	1010.9	1008.4	-0.3	26.1	24.5	23.7	29.4	87	+3	5.7	+0.9	6.6	0	0	30	7	3	5	7	2	0	0	6	1	0	
	1130	"	1010.5	1008.0	..	27.8	25.0	23.8	29.4	79	..	4.7	..	11.5	0	0	31	3	0	0	0	3	2	3	23	0	0	
Manavore (Bajpe Aerodrome)	1730	"	1008.0	1005.5	..	27.1	24.9	23.9	29.8	83	..	5.7	..	11.2	0	0	31	0	0	0	0	3	2	3	0	4	3	
	2330	"</																										

TABLE III.—SUMMARY OF OBSERVATIONS AT FIXED HOURS—OCTOBER, 1958 (ASVINA 9—KARTIKA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas)	Wind speed (km. p.h.)	No. of observations															
			At mean sea level or height in g.p.m. of nearest standard isobaric level			At station level									Mean amount		62 or more		20 to 61		1 to 19		N	NE	E	SE	S	SW	W	NW	Calm	Variable
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28		
Mysore (North) Contd.																														
Belgaum (Sambre Aerodrome)	0530	747	1009.2	926.7	..	21.5	19.6	18.7	21.5	85	..	3.7	..	2.0	0	1	5	0	0	2	0	0	1	3	0	25	0			
	0830	"	1010.4	928.0	..	23.1	20.3	19.7	21.9	78	..	4.3	..	4.8	0	2	12	12	1	7	1	0	1	3	0	17	0			
	1130	"	1009.1	928.0	..	26.5	22.0	20.6	23.2	68	..	4.1	..	6.6	0	2	17	0	2	4	3	0	3	7	0	12	0			
Gadag . . .	1730	"	1006.1	925.3	..	26.8	22.5	20.9	24.1	70	..	5.0	..	12.7	0	8	19	0	5	4	1	0	4	10	3	4	0			
Gadag (P.B.O.)	0830	650	1010.5	938.7	-0.6	23.5	20.5	18.9	21.9	77	+2	4.9	+0.8	9.7	0	1	30	2	3	5	0	1	4	6	10	0	0			
	1730	"	1005.7	935.4	..	28.2	20.8	16.5	20.0	53	..	5.4	..	9.6	0	0	30	3	7	1	0	2	6	4	7	1	0			
	0530	661	1008.9	935.9	..	21.3	19.8	19.1	22.1	88	..	4.1	..	8.1	0	0	25	1	2	1	1	1	5	14	0	6	0			
	0830	"	1010.3	937.4	..	23.4	20.7	19.2	22.5	79	..	4.5	..	7.6	0	0	28	2	3	3	1	2	4	13	0	3	0			
	1130	"	1008.8	937.0	..	27.4	21.4	18.6	21.2	59	..	5.0	..	11.5	0	5	23	5	1	5	0	1	3	8	5	3	0			
	1730	"	1005.5	934.0	..	27.8	21.0	17.6	19.9	57	..	5.2	..	8.0	0	0	26	3	5	2	0	2	6	4	5	0				
Raichur . . .	2330	"	1009.6	936.7	..	23.2	20.5	19.2	22.1	79	..	3.5	..	9.9	0	0	27	1	3	3	0	1	5	14	0	4	0			
	0830	400	1009.5	965.4	-1.1	25.3	21.8	19.6	23.1	71	+1	4.1	+1.4	5.7	0	0	29	5	6	2	1	2	4	7	2	0				
	1730	"	1005.3	961.7	..	30.6	21.8	17.5	19.0	48	..	4.7	..	6.5	0	0	28	8	8	4	2	1	1	3	3	0				
Mysore (South)																														
Bellary . . .	0830	449	1009.9	959.8	-1.2	25.4	22.0	19.9	22.6	74	+5	4.6	+0.5	5.7	0	0	29	1	1	0	7	0	1	0	19	2	0			
	1730	"	1005.1	956.1	..	29.6	22.7	18.6	23.0	54	..	5.6	..	5.1	0	0	29	0	2	1	8	0	2	0	16	2	0			
Chitaldrug . . .	0830	733	1010.2	929.5	-0.8	22.8	20.3	18.9	22.1	79	+4	5.8	+1.2	6.9	0	0	29	0	0	4	1	2	9	13	0	2	0			
	1730	"	1005.5	926.4	..	27.2	20.4	16.3	19.1	54	..	5.5	..	3.0	0	0	15	0	2	2	1	1	0	8	1	16	0			
Shimoga . . .	0830	571	1010.8	947.8	..	22.8	21.0	20.1	23.5	85	..	5.8	..	3.4	0	0	24	2	1	2	1	3	7	4	7	0				
	1730	"	1006.2	943.9	..	27.3	22.0	19.5	23.0	63	..	5.2	..	5.4	0	0	29	1	3	2	0	1	4	15	3	2	0			
Balehonnur . . .	0830	"	"	"	"	19.9	18.9	18.5	21.1	88	-4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hassan . . .	0830	960	1507.5	905.8	..	21.1	19.3	18.5	21.2	85	+5	(a) 5.7	+0.8	7.3	0	0	27	1	1	5	0	0	0	3	15	2	4	0		
	1730	"	1487.9	903.1	..	24.7	20.2	17.8	20.4	67	..	6.2	..	8.5	0	0	27	3	3	1	0	1	2	12	5	4	0			
Mysore . . .	0830	767	1010.7	926.3	-0.6	22.3	20.5	19.5	22.9	85	+4	3.4	-2.0	6.9	0	0	30	1	0	7	3	0	11	3	5	1	0			
	1730	"	1006.1	923.2	..	26.6	21.2	18.3	21.3	61	..	5.2	..	9.3	0	1	29	2	4	3	0	1	5	12	3	1	0			
Bangalore (Central Observatory)	0230	921	1483.3	907.6	..	20.2	19.2	18.5	21.4	91	..	4.8	..	8.2	0	1	23	0	2	3	3	1	1	8	9	3	0			
	0830	"	1505.6	909.6	-0.9	21.8	19.9	18.9	21.9	84	+3	5.0	+0.5	10.0	0	0	28	1	4	3	1	1	1	8	9	6	0			
	1130	"	1507.9	909.1	..	25.4	20.7	18.2	21.0	65	..	5.9	..	11.4	0	1	30	1	5	3	2	0	5	9	6	0				
Bangalore (Aero-drome)	1730	"	1484.0	906.6	..	25.2	20.3	17.6	20.4	64	..	6.8	..	10.4	0	0	31	5	5	4	1	2	1	5	8	0				
	0530	897	1485.6	910.3	..	20.3	19.4	19.0	22.0	92	..	5.7	..	6.6	0	1	15	0	2	2	0	0	2	10	0	15	0			
	0830	"	1508.7	912.3	..	22.7	20.2	17.9	22.0	79	..	6.0	..	11.0	0	0	24	2	1	2	0	0	1	13	5	7	0			
	1130	"	1510.1	911.7	..	26.2	20.7	17.8	20.6	61	..	5.9	..	12.5	0	3	25	4	3	4	0	1	1	10	5	3	0			
	1730	"	1486.7	909.3	..	25.9	20.6	17.7	20.8	62	..	6.7	..	9.9	0	0	27	4	6	2	0	2	2	5	6	4	0			
	2330	"	1501.7	911.7	..	21.9	20.0	19.0	22.0	83	..	6.1	..	5.3	0	0	12	0	0	3	0	0	1	7	1	19	0			
Kerala																														
Kozhikode	0530	5	1009.1	1003.6	..	24.7	23.8	23.4	28.9	92	..	5.3	..	4.7	0	0	26	5	3	9	0	0	0	4	5	5	0			
	0830	"	1010.8	1010.3	-0.4	26.1	24.3	23.6	29.0	86	0	6.4	+1.2	4.2	0	0	25	0	4	3	1	1	2	4	10	6	0			
	1130	"	1010.7	1010.2	..	28.8	25.6	24.1	30.3	76	..	5.2	..	9.2	0	1	30	0	0	0	0	2	9	11	9	0				
	1730	"	1008.3	1007.8	..	27.7	25.3	24.2	30.3	82	..	6.0	..	12.8	0	0	31	1	0	2	1	0	2	11	14	0				
	2330	..	1010.6	1010.1	..	25.9	24.7	24.1	30.2	90	..	5.5	..	7.4	0	1	25	4	3	3	0	0	2	1	13	5	0			
Palghat . . .	0830	97	1010.9	999.8	..	25.8	24.1	23.0	28.9	86	..	6.4	..	8.0	0	0	27	1	0	3	0	0	3	20	0	4	0			
	1730	"	1007.5	996.5	..	27.5	24.2	22.6	27.8	75	..	6.8	..	12.4	0	1	30	0	0	1	0	0	0	8	17	5	0			
Fort Cochin . . .	0830	3	1010.8	1010.5	-0.9	26.6	24.6	23.7	29.4	84	+2	6.6	+1.8	4.4	0	0	17	3	5	2	2	1	0	0	4	14	0			
	1730	"	1008.4	1008.1	..	27.1	25.1	24.2	30.3	85	..	6.9	..	9.4	0	0	27	1	0	0	0	0	1	8	17	4	0			
G																														

TABLE III.—SUMMARY OF OBSERVATIONS AT FIXED HOURS—OCTOBER, 1958 (ASVINA 9—KARTIKA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.			Mean pressure in millibars			Mean temperature in °C			Cloud amount (Octas)			Wind speed (km.p.h.)			No. of observations													
	1	2	3	At mean sea level or height in R.P.M. of nearest standard isobaric level			At station level			Departure from normal	Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Mean amount	Mean Km. per hour	Wind speed	Wind direction									
				5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28		
Kerala—Contd. Trivandrum . . .	0230	64	1008.6	1001.3	..	24.2	23.4	23.0	28.2	93	..	5.2	..	5.5	0	0	30	6	2	0	0	0	1	0	21	1	0		
	0530	"	1008.8	1001.5	..	24.0	23.2	22.4	27.7	93	..	5.1	..	5.5	0	0	29	6	1	1	0	0	1	0	20	2	0		
	0830	"	1010.8	1003.5	-0.7	26.1	24.1	23.15	28.4	84	-1	5.3	-0.2	5.9	0	0	30	3	2	0	0	0	3	0	22	1	0		
	1130	"	1010.1	1002.8	..	29.4	24.9	22.8	28.3	68	..	5.9	..	10.9	0	1	30	1	0	0	0	0	1	8	21	0	0		
	1730	"	1008.2	1000.9	..	27.5	24.4	23.0	28.2	78	..	6.1	..	9.2	0	1	28	1	0	0	0	0	1	1	26	2	0		
	2330	"	1010.5	1003.2	..	24.9	23.8	23.2	28.5	91	..	5.5	..	7.0	0	0	29	8	1	1	0	0	1	1	15	2	0		
Trivandrum (Aerodrome)	0830	8	1010.9	1010.0	..	26.5	24.5	23.5	29.1	84	..	6.0	..	7.8	0	0	31	18	1	0	0	0	0	1	11	0	0		
Arabian Sea Islands Minicoy*	0530	2																											
	0830	"																											
Aminiv Divi*	0830	4																											
Hill Stations excluding Kashmir																													
Walong . . . (R)	0830																												
	1730																												
Kohima . . .	0830	1406	1534.4	862.9	..	21.7	19.5	18.3	21.1	82	..	4.8	..	..	0	0	27	3	5	4	4	5	3	2	1	4	0
	1730	"	1510.3	860.4	..	21.2	19.4	18.4	21.3	85	..	5.2	..	..	0	0	31	7	4	1	0	0	1	6	12	0	0
Aijal . . .	0830	"	..	..	..	21.0	19.9	19.3	22.6	90	..	5.6	..	3.0	0	0	20	1	2	10	2	4	0	1	11	0	0
	1730	"	..	..	..	22.2	20.9	20.1	23.8	87	..	5.7	..	5.1	0	1	25	0	0	1	0	4	4	16	1	5	0
Shillong . . .	0830	1500	1515.7	851.7	-0.4	20.2	16.8	14.5	16.7	71	-1	3.8	+0.4	1.0	0	0	6	0	0	0	0	0	1	4	1	0	25	0	
	1730	"	1489.4	849.2	..	19.1	17.8	17.0	19.4	87	..	6.2	..	0.2	0	0	2	0	0	0	0	0	0	1	1	0	29	0	
Cheerapunji . . .	0830	1313	1515.9	870.3	-0.4	20.4	18.9	17.7	20.8	85	+12	1.8	-2.0	3.6	0	0	31	0	9	1	1	2	15	3	0	0	0	0	
	1730	"	1476.9	866.6	..	20.0	19.1	18.3	21.3	89	..	0.3	..	3.6	0	0	31	0	8	2	3	1	15	2	0	0	0	0	
Darjiling (Raj-Bhawan).	0830	2127	1533.4	793.6	+2.5	17.0	14.9	13.6	15.6	81	+8	5.0	+0.7	0.7	0	0	5	1	0	0	0	0	4	0	0	26	0		
	1730	"	1512.0	791.3	..	15.4	14.5	13.9	15.9	92	..	5.1	..	0.4	0	0	3	0	0	0	0	0	0	2	1	0	28	0	
Kalimpong . . .	0830	1209	1478.2	877.3	-4.4	21.0	19.6	19.1	21.8	88	+9	2.2	-0.8	3.0	0	0	31	0	0	0	0	1	0	0	0	30	0	0	
	1730	"	1474.3	876.1	..	21.3	19.7	19.4	21.7	86	..	2.4	..	2.9	0	0	30	0	0	0	0	0	0	0	2	1	0		
Katmandu (Hydromet)	0830	1324	1514.4	869.0	..	18.2	16.8	15.9	18.2	87	..	4.5	..	0.5	0	0	2	0	0	1	0	0	1	0	0	29	0		
	1130	"	1509.3	868.4	..	24.2	18.6	15.2	17.4	58	..	3.3	..	1.0	0	0	9	1	0	2	3	1	1	0	1	22	0		
	1730	"	1489.7	866.6	..	20.9	17.9	16.1	18.3	74	..	2.9	..	0.7	0	0	4	1	0	0	1	0	0	0	2	27	0		
Mukteswar (Kumaon)	0830	2311	3160.9	774.8	0	14.3	10.6	7.3	10.7	68	+11	2.9	+1.5	8.2	0	2	25	0	11	9	1	0	0	2	2	4	0	0	
	1730	"	3146.7	773.3	..	15.2	12.6	10.6	12.9	76	..	2.9	..	9.4	0	2	25	0	2	1	0	0	0	8	12	4	4	0	
Nainital . . .	0830	1953	1503.3	806.7	..	16.1	11.8	8.2	10.9	61	..	2.8	..	2.8	0	0	15	0	3	8	3	0	0	0	1	16	0		
	1730	"	1485.2	804.9	..	15.5	13.2	11.2	13.9	77	..	2.6	..	5.6	0	0	28	1	0	4	4	3	4	12	0	3	0		
Joshiimath . . .	0830	"	..	..	..	15.6	11.5	8.2	11.7	63	..	1.9	..	7.7	0	0	29	0	6	17	1	0	0	1	2	4	0
	1730	"	..	..	..	16.6	12.6	9.4	12.3	63	..	3.9	..	3.5	0	0	28	0	0	1	2	10	4	2	0	3	9
Badrinath . . .	0830	"	..	..	..	8.2	3.7	-1.1	5.6	51	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Loknai . . .	0830	"	..	..	..	-1.6	-3.4	-6.7	3.6	67	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mussooree . . .	0830	2042	1499.8	798.0	-1.6	15.8	12.3	9.6	12.1	65	+1	2.0	+0.4	1.9	0	0	19	4	3	0	2	5	4	0	1	12	0		
	1730	"	1486.0	796.7	..	15.0	14.1	13.6	15.6	88	..	3.3	..	2.6	0	0	25	1	1	0	3	11	8	0	1	6	0		
Simla . . .	0830	2202	1505.2	783.6	-0.2	15.1	9.5	3.4	8.3	50	+6	1.3	+0.2	2.4	0	0	25	3	6	1	6	5	2	0	2	6	0		
	1730	"	1503.0	783.8	..	14.6	11.5	8.5	11.5	70	..	2.8	..	2.8	0	0	29	4	3	2	5	5	5	0	5	2	0		
Dalhousie . . .	0830	1959	1440.4	800.2	..	15.7	11.0	7.2	10.0	58	..	0.6	..	0	0	0	0	0	0	0	0	0	0	0	0	0	31	0	
	1730	"	1435.4	800.3	..	17.5	14.3	11.6	14.0	71	..	0.4	..	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Dharamshala . . .	0830	1211	1548.5	884.0	..	20.7	15.4	11.1	13.5	56	..	1.1	..	0.7	0	0	7	1	1	0	2	0	0	1	2	1	23	0	
	1730	"	1540.5	882.9	..	22.1	17.1	14.0	16.0	60	..	2.1	..	3.0	0	0	30	1	1	0	0	0	2	3	0	1	0		
Abu . . .	0830	1195	1518.7	882.7	-0.5	19.9	16.3	13.8	16.0	69	+21	1.9	+0.8	0.8	0	0	8	1	1	1	0	0	1	2	1	1	24	0	
Pachmarhi . . .	\$1730	"	1503.1	880.9	..	22.1	17.4	1																					

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—OCTOBER, 1958 (ASVINA 9—KARTIKA 9, 1880 SAKA)

(k) Mean of 20 days.

(a) Mean of 30 days

*Data not available.

TABLE III.—SUMMARY OF OBSERVATIONS AT FIXED HOURS—OCTOBER, 1958 (ASVINA 9—KARTIKA 9, 1880 SAKA).

(R) Registry not received.

*Observations for 29 days.

†Data included under "Hill Stations"

{Data is not available}

MONTHLY MEANS OF UPPER WINDS, OCTOBER, 1958

(Asvina 9—Kartika 9, 1880 Saka)

During the month, observations of velocity and direction of upper winds were made at 55 stations in India. Out of these, at 43 stations all the observations were taken by means of pilot balloons and at 12 stations some observations were made by means of pilot balloons while the other observations by the radiowind method. Particulars of the stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the table overleaf. All radiowind ascents have been indicated by means of an asterisk (*) against the scheduled hours.

Data from ascents made at the scheduled time or within two hours on either side of the scheduled times of regular observations have been used for averaging.

Data up to 9.0 km. a.m.s.l. are given under Table IV and data above 9.0 km. a.m.s.l. under Table V.

In Tables IV and V :

n—represents the number of observations;

V—represents the mean wind speed in knots irrespective of direction;

v—represents the resultant mean velocity in knots;

D—represents the direction of the resultant mean wind in degrees East of North.

Mean and resultant winds are given in this publication for the following heights :

Surface, 0.15 km.a.g., 0.3, 0.6, 0.9, 1.5, 2.1, 3.0, 3.6, 4.5, 5.4, 6.0, 7.2, 9.0, 10.5, 12.0, 14.1, 16.2, 18.0, 21.0, 24.0, 27.0, 30.0, 33.0 and 36.0 km. a.m.s.l. Of these, the levels 1.5, 3.0, 5.4, 7.2, 9.0, 12.0, 14.1 and 16.2 km. a.m.s.l. are considered as the best approximations to the standard pressure levels 850, 700, 500, 400, 300, 200, 150 and 100 mb respectively.

PARTICULARS OF PILOT BALLOON AND RAWIN STATIONS IN INDIA

537

No.	Station	Lat. N	Long. E	Height of Anemometer head a.m.s.l. in metres	Date of opening	Approximate times of flight (IST)		
1.	Agartala	23°53'	91°15'	17	28th Nov. 1951	0530	1730	2330
2.	Ahmedabad	23°04'	72°38'	61	19th May 1928	0530	1730	2330
3.	Amausi	26°45'	80°53'	132	20th Nov. 1950	0530	1730	2330
4.	Ambala	30°23'	76°46'	279	1st Apr. 1941	0530	1730	2330
5.	Amritsar	31°38'	74°52'	243	21st Jun. 1957	0530*	1730*	
6.	Anantapur	14°41'	77°37'	364	12th Feb. 1946	0530	1730	2330
7.	Asansol	23°41'	86°59'	135	29th May 1942	0530	1730	2330
8.	Baghdogra	26°38'	88°19'	140	7th Jun. 1953	0530	1730	2330
9.	Bairagarh	23°17'	77°21'	532	26th Feb. 1943	0530	1730	2330
10.	Bamrauli	25°27'	81°44'	103	28th Feb. 1930	0530*	1130	1730* 2330
11.	Bangalore	12°58'	77°35'	936	19th May 1915	0530	1730	2330
12.	Bareilly	28°22'	79°24'	180	12th Jan. 1943	0530	1730	
13.	Begumpet	17°27'	78°28'	543	1st Sep. 1929	0530	1730	2330
14.	Bhagalpur	25°14'	86°57'	61	19th May 1950	0530	1730	
15.	Bhubaneshwar	20°15'	85°50'	55	5th Dec. 1942	0530	1730	2330
16.	Bhuj	23°15'	69°48'	111	14th Sep. 1937	0530	1730	2330
17.	Bikaner	28°00'	73°18'	229	18th Oct. 1946	0530	1730	2330
18.	Chikalthana	19°51'	75°24'	583	7th Oct. 1951	0530	1730	2330
19.	Cochin†	09°56'	76°14'	3	16th Mar. 1942	0530	1730	2330
20.	Darjeeling	27°03'	88°16'	2115	21st May 1956	0530	1730	
21.	Dehra Dun	30°19'	78°03'	692	1st Oct. 1958	0530	1730	
22.	Dum Dum	22°39'	88°27'	13	14th May 1921	0530*	1130	1730* 2330
23.	Gadag	15°25'	75°38'	650	3rd May 1943	0530	1730	2330
24.	Gannavaram	16°32'	80°48'	34	8th Apr. 1942	0530	1730	2330
25.	Gauhati	26°05'	91°43'	51	12th Mar. 1955	0530*	1130	1730* 2330
26.	Gaya	24°45'	84°57'	119	19th Mar. 1937	0530	1730	2330
27.	Gopalpur	19°16'	84°53'	24	15th Feb. 1946	0530	1730	2330
28.	Gorakhpur	26°45'	83°22'	83	5th Jan. 1943	0530	1730	
29.	Gwalior	26°14'	78°15'	208	7th May 1938	0530	1730	2330
30.	Imphal	24°51'	93°58'	805	8th Mar. 1952	0530	1730	2330
31.	Jabalpur	23°10'	79°57'	402	30th Jul. 1928	0530	1730	2330
32.	Jagdalpur	19°05'	82°02'	562	25th Mar. 1948	0530	1730	2330
33.	Jaipur	26°49'	75°48'	404	6th Jun. 1953	0530	1730	
34.	Jamshedpur	22°49'	86°11'	147	23rd Jul. 1942	0530	1730	
35.	Jharsuguda	21°55'	84°05'	240	1st May 1944	0530	1730	2330
36.	Jodhpur	26°18'	73°01'	229	15th Oct. 1934	0530*	1130	1730* 2330
37.	Madras	13°00'	80°11'	29	8th Apr. 1926	0530*	1130	1730* 2330
38.	Mangalore	12°52'	74°51'	40	4th Jun. 1928	0530	1730	2330
39.	Minicoy	08°18'	73°00'	16	14th Apr. 1941	0530	1730	2330
40.	Mohanbari	27°29'	95°01'	112	1st Jun. 1948	0530	1730	2330
41.	Nagpur	21°06'	79°03'	316	23rd Apr. 1943	0530*	1130	1730* 2330
42.	Nanpara	27°50'	81°30'	142	23rd Apr. 1957	0530	1730	
43.	New Delhi	28°35'	77°12'	227	28th Oct. 1936	0530*	1130	1730* 2330
44.	Poona	18°32'	73°51'	593	5th Jan. 1925	0530	1730	2330
45.	Port Blair	11°40'	92°43'	93	29th Oct. 1945	0530*	1130	1730* 2330
46.	Raipur	21°14'	81°39'	308	15th Jul. 1944	0530	1730	2330
47.	Raxaul	26°59'	84°51'	83	28th Oct. 1957	0530	1730	
48.	Santa Cruz	19°07'	72°51'	14	14th May 1933	0530*	1130	1730* 2330
49.	Tezpur	26°37'	92°47'	79	12th Aug. 1932	0530	1730	2330
50.	Tiruchirapalli	10°46'	78°43'	96	22nd Jun. 1936	0530	1730	2330
51.	Trivandrum	08°29'	76°57'	73	8th Dec. 1928	0530*	1130	1730* 2330
52.	Udaipur	24°35'	73°42'	587	24th Jun. 1947	0530	1730	2330
53.	Vengurla	15°52'	73°38'	58	22nd Nov. 1941	0530	1730	2330
54.	Veraval	20°54'	70°22'	17	13th Oct. 1941	0530*	1130	1730* 2330
55.	Visakhapatnam	17°43'	83°14'	10	24th Sep. 1928	0530	1730	2330

*Radiowind ascents.

†Naval Meteorological Office.

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

October, 1958 (Asvina 9—Kartika 9, 1880 Saka)

Station	AGARTALA								AHMEDABAD																
	0530				1730				2330				0530				1730				2330				
Time in I. S. T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Ht. in Km.																									
Surface	31	2.8	1.1	077	31	1.5	0.8	120	31	1.6	0.9	137	31	2.1	1.0	054	31	2.9	1.3	044	31	1.9	0.8	151	
0.15 a. g.	28	8.0	2.3	115	30	7.3	4.0	268	30	7.9	4.8	202	30	10.3	4.2	028	30	6.4	2.1	043	31	7.5	3.2	082	
0.3 a. s. l.	28	8.5	4.0	285	30	7.1	1.4	213	30	8.2	3.7	225	30	9.5	3.3	025	30	6.6	2.1	044	31	7.5	3.5	083	
0.6 „	28	9.1	1.2	280	30	6.9	2.4	212	30	7.9	4.8	235	30	8.3	2.4	021	30	6.5	2.8	039	31	7.6	3.7	071	
0.9 „	27	8.9	4.8	307	30	7.6	3.8	204	30	7.6	4.3	235	30	7.8	3.4	045	30	6.6	3.5	038	31	7.8	3.9	063	
1.5 „	24	7.5	2.1	216	29	7.7	3.4	227	29	7.7	4.7	225	30	8.0	6.0	067	29	7.6	4.7	035	30	9.0	5.2	050	
2.1 „	24	8.3	4.3	209	29	8.6	4.5	228	29	8.4	5.7	226	30	8.3	5.5	071	29	8.7	4.8	045	30	8.8	5.7	057	
3.0 „	19	10.8	5.7	220	26	9.6	5.4	229	29	10.3	6.6	231	27	8.3	3.7	035	29	10.0	8.7	053	28	9.5	4.2	051	
3.6 „	17	11.0	6.6	221	20	10.1	7.9	246	20	11.3	5.9	234	24	8.3	1.3	014	29	9.3	2.0	014	13	8.3	3.5	077	
4.5 „	15	12.3	4.4	218	18	12.2	8.0	251	14	11.7	7.5	240	12	10.8	7.2	291	28	11.8	2.5	276	6	9.0	4.9	222	
5.4 „	11	12.2	1.1	283	9	10.7	5.4	263	12	10.3	3.0	253	3	10.7	4.0	301	27	12.3	6.8	248	1	18.0	18.0	230	
6.0 „	9	10.2	3.0	327	8	9.3	5.2	246	8	10.6	6.8	231					26	14.5	9.6	249	1	20.0	20.0	240	
7.2 „	6	11.3	2.7	260	5	9.8	5.7	243	3	7.0	7.0	240					15	21.2	17.6	239					
9.0 „	6	17.5	7.7	252	2	8.0	8.0	243	2	9.5	9.5	232					3	20.3	19.8	224					
Station	AMAUSI								AMBALA																
Time in I. S. T.	0530				1730				2330				0530				1730				2330				
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Surface	31	1.6	0.3	304	31	2.3	1.2	291	31	2.1	0.6	311	31	2.5	0.5	014	31	3.0	2.5	309	31	3.8	3.4	319	
0.15 a. g.	30	9.7	3.0	311	29	6.9	3.7	310	30	8.5	3.9	313	31	10.7	5.0	351	31	9.4	6.9	315	30	13.2	12.9	327	
0.3 a. s. l.	30	10.2	3.2	312	29	7.1	3.7	310	30	8.6	2.8	329	31	4.8	1.4	019	31	5.0	3.8	306	30	6.3	5.3	323	
0.6 „	30	9.6	2.2	326	29	8.7	3.7	317	30	8.9	3.8	320	31	11.0	5.8	335	31	11.6	8.8	317	30	12.8	12.2	325	
0.9 „	28	9.3	5.1	305	29	8.9	4.0	316	30	9.6	4.2	311	30	11.5	7.8	327	30	11.1	10.1	316	30	12.1	11.2	322	
1.5 „	24	10.6	8.6	321	29	9.2	4.5	317	29	9.6	4.2	308	29	11.0	7.7	323	30	11.9	10.2	319	30	10.5	8.4	322	
2.1 „	20	6.7	2.6	333	26	9.5	3.4	297	25	9.4	2.7	285	29	11.8	6.5	311	30	12.2	7.6	333	30	11.3	5.7	312	
3.0 „	17	6.9	3.7	288	20	11.0	1.5	280	18	8.6	1.5	164	27	13.2	6.1	308	29	13.0	4.3	350	30	13.2	2.8	296	
3.6 „	10	7.3	3.2	235	18	10.9	2.8	251	6	6.0	0.6	118	7	12.7	3.7	036	29	12.1	2.3	002	10	14.0	0.9	156	
4.5 „	7	13.6	10.5	242	11	14.8	9.5	265									29	12.9	4.4	322	8	10.0	1.7	257	
5.4 „	2	16.0	16.0	291	8	20.3	14.3	284									26	14.9	9.2	282	5	15.4	8.0	252	
6.0 „	2	20.5	20.5	255	4	24.3	19.9	263									25	17.4	13.2	277	5	21.2	13.9	258	
7.2 „	1	15.0	15.0	265	3	37.7	37.0	243									13	26.2	22.2	264	1	16.0	16.0	300	
9.0 „	1	24.0	24.0	255	1	44.0	44.0	240									5	34.8	31.7	259					

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

October 1958 (Asvina 9—Kartika 9, 1880 Saka)

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

October 1938 (Asvina 9—Kartika 9, 1860 Saka)

Station	BAIRAGARH								BAMRAULI															
	1730				2330				0530*				1130				1730*				2330			
Time in I. S. T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	5·6	3·6	002	31	2·8	2·2	047	31	1·7	0·2	232	31	4·3	1·3	326	31	2·7	1·2	338	31	1·5	0·1	130
0·15 a. g. .	31	9·7	6·8	008	31	9·8	7·2	046	30	9·3	2·7	295	31	7·1	2·3	342	29	8·9	4·4	332	31	9·1	0·4	315
0·3 a. m. s. l. .									30	8·7	2·5	285	31	7·2	2·2	341	29	8·8	4·0	336	31	9·2	1·0	322
0·6 ., .	31	9·0	6·3	007	31	9·4	6·9	046	30	8·4	1·9	315	31	7·5	1·5	310	29	8·5	2·8	330	31	10·2	1·1	306
0·9 ., .	31	11·1 ^b	8·2	007	31	10·6	7·1	036	30	8·6	2·6	320	31	8·3	2·3	325	29	8·4	2·2	306	31	10·0	2·3	321
1·5 ., .	30	11·3	7·7	003	30	10·6	7·4	015	30	10·1	3·4	320	26	9·8	2·3	325	29	9·5	3·0	300	29	9·5	4·1	284
2·1 ., .	29	11·7	7·4	360	28	9·9	6·2	016	30	10·6	2·6	339	23	11·2	2·8	311	29	10·3	3·5	285	24	9·4	2·6	247
3·0 ., .	27	12·0	6·5	352	24	9·9	3·6	354	30	11·2	0·9	230	19	13·2	5·0	282	29	11·1	3·6	245	20	9·1	2·6	165
3·6 ., .	26	12·2	6·3	317	10	9·5	1·8	338	30	10·7	3·7	225	16	15·0	4·1	310	29	10·8	3·3	256	5	11·2	8·9	050
4·5 ., .	24	12·7	5·4	277					30	13·2	7·3	250	13	16·2	9·3	262	28	12·8	7·5	245	1	17·0	17·0	015
5·4 ., .	19	15·7	9·5	254					28	13·0	8·4	243	12	17·7	12·4	261	27	14·1	9·9	262				
6·0 ., .	18	16·5	11·6	259					28	15·4	10·1	247	10	18·3	14·5	252	26	14·7	11·7	254				
7·2 ., .	18	17·4	14·5	255					25	19·0	15·5	255	6	24·4	22·8	257	26	17·8	14·9	256				
9·0 ., .	3	20·7	18·7	236					23	25·0	21·7	259	4	31·5	29·8	261	24	22·4	19·2	259				
Station	BANGALORE								BAREILLY								BEGUMPET							
Time in I. S. T.	0530				1730				2330				0530				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	5·1	2·3	319	31	7·1	3·2	335	30	6·1	1·3	344	31	2·5	0·5	001	31	2·3	1·5	318	31	3·5	2·2	359
0·15 a. g. .	26	9·9	4·5	318	31	10·5	4·7	337	25	12·4	3·5	348	31	9·2	2·9	334	31	6·8	3·6	320	28	11·4	6·0	019
0·3 a. m. s. l. .													31	8·9	3·1	332	31	6·6	3·7	321				
0·6 ., .													30	9·6	3·5	324	31	9·0	4·5	318	29	7·3	4·3	009
0·9 ., .													28	9·3	5·7	314	31	9·8	4·6	313	28	13·8	8·5	032
1·5 ., .	26	13·2	7·3	352	30	11·9	6·0	333	25	13·1	5·7	349	27	10·4	6·9	306	29	9·3	6·5	304	28	12·8	9·3	029
2·1 ., .	25	11·0	6·9	343	25	12·7	7·2	347	23	11·6	6·7	345	23	8·3	4·8	325	28	8·9	5·4	302	26	11·8	8·1	028
3·0 ., .	19	8·1	4·2	345	18	10·8	6·1	003	15	7·1	4·0	357	22	9·7	1·1	047	26	10·3	3·0	296	25	11·3	6·3	023
3·6 ., .	17	7·0	3·6	022	16	11·6	6·7	020	13	7·4	4·1	029	17	8·8	1·3	110	26	9·9	0·7	319	19	12·1	6·5	033
4·5 ., .	8	7·3	1·0	297	13	10·5	5·7	053	7	8·0	4·1	098	3	14·3	4·6	292	25	12·0	4·8	263	16	10·1	5·3	062
5·4 ., .	3	5·7	1·1	237	12	11·6	5·6	059	6	8·2	4·5	092	1	8·0	8·0	305	22	15·7	10·2	281	13	9·7	6·1	077
6·0 ., .	1	10·0	10·0	090	12	12·7	7·2	067	5	7·0	4·0	087					21	19·8	14·9	272	13	9·2	5·2	098
7·2 ., .	1	13·0	13·0	095	8	10·9	5·2	062									17	27·8	22·9	266	5	8·8	8·7	058
9·0 ., .					4	10·5	7·7	098									7	24·7	22·3	270	1	10·0	10·0	085

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

October 1958 (Asvina 9—Kartika 9, 1880 Saka)

Station	BEGUMPET					BHAGALPUR					BHUBANESHWAR					
	1730		2330			0530		1730			0530		1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	5·6	2·3	014	31	3·4	2·3	015	31	2·4	0·9	194	31	2·3	1·3	262
0·15 a. g. .	31	10·0	5·1	021	28	12·1	7·4	031	31	6·9	2·1	214	29	6·3	3·0	276
0·3 a. m.s. l. .									31	7·0	1·8	250	29	6·6	3·1	273
0·6 „ .	31	9·0	4·5	004	28	8·0	4·8	027	30	8·1	2·8	281	29	7·2	3·4	278
0·9 „ .	31	10·7	6·1	021	28	12·7	7·9	031	29	8·0	3·2	281	29	7·6	3·4	273
1·5 „ .	30	11·2	7·2	017	28	11·8	8·0	020	29	9·4	2·6	276	28	9·4	5·1	256
2·1 „ .	29	11·3	6·3	004	28	11·5	6·6	013	24	10·0	3·2	251	23	9·6	5·6	265
3·0 „ .	26	11·7	5·3	346	26	10·2	4·2	359	21	10·6	6·7	263	19	12·4	6·6	272
3·6 „ .	25	13·3	5·3	341	9	7·3	2·9	329	20	12·1	9·1	263	13	11·8	10·5	276
4·5 „ .	21	11·7	4·7	354	2	3·0	3·0	138	13	12·8	10·6	253	9	14·8	13·9	267
5·4 „ .	21	10·0	3·4	022					11	12·5	10·9	242	6	14·7	12·8	259
6·0 „ .	18	7·5	3·4	026					10	11·6	10·1	247	5	13·0	12·0	254
7·2 „ .	11	7·6	4·3	077					6	16·0	14·2	262	2	2·0	1·4	086
9·0 „ .	6	10·5	8·2	117					1	23·0	23·0	285				
Station	BHUBANESHWAR				BHUJ					BIKANER						
Time in I. S. T.	2330				0530		1730			0530		1730				
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	2·6	0·5	095	31	1·7	0·8	213	31	4·0	1·4	011	31	2·4	0·3	217
0·15 a. g. .	29	9·1	3·7	129	31	10·9	3·2	308	31	9·0	2·4	348	31	10·5	3·8	312
0·3 a. s. l. .	29	9·1	3·8	148	31	11·7	2·7	326	31	9·0	2·3	351	31	10·8	4·0	323
0·6 „ .	29	9·2	3·9	147	31	10·8	2·4	030	31	8·5	2·1	010	31	9·6	2·9	019
0·9 „ .	28	8·9	2·7	127	31	9·4	4·3	089	31	7·7	2·3	040	31	8·4	4·6	080
1·5 „ .	28	9·3	3·6	100	31	9·7	5·9	101	31	7·3	2·6	088	30	9·8	6·5	091
2·1 „ .	26	8·5	2·1	140	31	9·4	4·4	096	31	9·2	4·2	102	20	10·3	6·6	103
3·0 „ .	19	9·6	5·5	200	31	10·3	5·4	087	29	10·9	6·0	128	29	10·2	6·5	110
3·6 „ .	6	10·2	6·7	236	19	9·0	3·2	080	29	10·1	4·8	115	21	8·2	3·3	082
4·5 „ .	4	7·2	4·3	230	11	10·6	5·6	157	28	10·9	1·1	110	12	10·7	1·4	151
5·4 „ .	3	10·3	4·0	263	8	8·0	4·7	209	27	11·0	2·2	293	4	10·7	3·7	283
6·0 „ .	2	12·0	1·5	035	3	9·3	9·3	255	26	12·7	5·9	257	1	9·0	9·0	275
7·2 „ .	1	8·0	8·0	060					21	16·9	13·5	248	1	8·0	8·0	240
9·0 „ .									11	28·3	25·4	238				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

October 1958 (Asvina 9—Kartika 9, 1880 Saka)

Station	BIKANER				CHIKALTHANA								COCHIN								
	2330				0530				1730				2330				0530				
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Surface .	31	1·7	0·4	166	31	2·7	1·1	035	31	5·2	4·2	027	31	4·2	2·0	046	31	0·5	0·2	058	31 4·7 4·1 300
0·15 a.g. .	31	9·7	3·3	115	31	10·1	6·7	037	31	11·1	8·8	023	31	13·3	9·3	032	23	6·1	4·4	094	23 8·9 8·4 294
0·3 a.s.l .	31	8·4	3·5	119													23	8·4	7·5	336	23 11·3 10·7 299
0·6 „ .	31	8·6	2·7	137													23	11·5	10·9	321	23 13·3 12·9 306
0·9 „ .	31	7·9	1·0	209	31	12·2	8·9	044	31	11·6	9·0	022	31	15·7	11·7	033	23	11·4	10·9	316	23 12·0 11·5 310
1·5 „ .	31	8·7	4·1	300	28	12·0	10·6	044	31	11·1	7·1	028	30	13·9	9·0	037	22	9·6	7·6	316	22 9·9 8·8 326
2·1 „ .	31	9·8	7·5	309	28	9·5	7·6	027	29	9·5	5·4	023	29	10·6	4·6	054	22	10·6	5·8	346	20 9·7 6·6 343
3·0 „ .	30	11·6	8·2	331	26	9·7	4·0	341	25	8·1	3·0	018	26	9·6	0·9	264	19	11·7	6·4	343	16 9·0 4·9 338
3·6 „ .	18	13·0	9·5	351	23	10·7	4·1	322	20	10·3	3·0	327	20	10·3	0·7	153	13	8·5	5·3	040	12 7·3 4·1 343
4·5 „ .	4	14·0	9·5	280	11	8·5	2·8	287	18	12·4	4·2	308	9	10·4	4·2	256	11	7·6	5·0	064	6 5·2 3·0 336
5·4 „ .	3	16·3	10·2	272	3	14·3	13·5	265	15	13·3	4·7	287	4	13·0	6·7	246	3	9·0	8·9	081	2 4·0 1·6 204
6·0 „ .	1	45·0	45·0	280					13	12·5	3·8	253	3	12·3	7·5	247	2	10·5	10·5	081	
7·2 „ .									6	13·2	9·9	267					2	15·5	15·5	065	
9·0 „ .									3	10·3	3·6	100					2	19·0	19·0	092	
Station	COCHIN				DARJEELING								DEHRA DUN				DUM DUM				
Time in I.S.T.	2330				0530				1730				0530				1730				
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Surface .	31	1·6	0·3	069	31	0·9	0·9	237	31	0·5	0·5	270	31	2·2	1·9	016	31	1·8	1·2	270	31 1·7 0·4 182
0·15 a.g. .	19	6·3	4·6	318	11	3·9	1·1	185	3	5·0	1·7	198	29	2·6	1·3	072	29	4·7	3·6	284	31 8·0 0·3 207
0·3 a.s.l .	19	8·8	7·5	317																31 8·6 0·1 232	
0·6 „ .	19	12·4	11·8	315																31 8·8 0·6 243	
0·9 „ .	19	12·1	11·6	313													29	4·7	3·9	283	31 9·1 1·2 240
1·5 „ .	19	9·4	8·8	306													29	3·0	0·5	229	31 9·3 1·5 210
2·1 „ .	16	10·8	6·8	332													28	6·0	0·6	051	31 10·0 3·2 201
3·0 „ .	12	9·5	7·3	032	11	5·4	0·1	280	3	6·0	3·3	070	27	9·6	1·2	078	23	8·7	2·1	109	31 11·7 5·8 224
3·6 „ .	6	5·8	3·3	025	11	11·4	5·5	303	3	15·0	9·3	067	25	10·4	3·4	090	22	9·9	2·1	099	1 10·0 10·0 265
4·5 „ .	3	3·7	0·3	045	9	18·9	11·1	294	2	15·0	10·5	283	13	8·8	3·2	249	21	10·4	3·2	287	31 12·1 5·9 235
5·4 „ .	2	5·5	3·3	096	6	17·0	15·3	273	1	10·0	10·0	090	3	14·0	13·3	226	21	14·0	8·1	279	30 13·1 5·5 246
6·0 „ .	1	21·0	21·0	035	5	18·4	12·5	277					1	20·0	20·0	235	21	21·9	16·7	268	30 12·8 6·5 246
7·2 „ .					4	20·0	11·4	275									15	38·2	36·0	264	30 11·8 7·7 231
9·0 „ .					2	18·5	18·3	339									8	62·1	61·0	267	29 13·0 6·7 268

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level.

October 1958 (Asvina 9-Kartika 9, 1880 Saka)

Station	DUM DUM								GADAG															
	1130				1730*				2330				0530				1730				2330			
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Ht. in Km.																								
Surface	31	3.7	0.7	040	31	1.5	0.8	194	31	1.7	0.8	153	31	5.4	2.0	257	31	5.1	1.1	310	31	6.5	3.7	261
0.15 a. g.	31	6.8	0.9	024	31	7.8	2.2	230	31	7.9	3.1	180	29	13.9	4.0	307	31	9.5	2.7	325	30	16.3	5.7	276
0.3 a. s. 1	31	6.9	0.4	003	31	7.8	2.0	222	31	8.5	3.5	194												
0.6 „	31	7.7	0.7	208	31	7.8	1.5	216	31	8.0	3.0	204												
0.9 „	25	8.7	0.6	144	31	8.1	1.0	236	29	7.5	2.5	223	29	14.8	4.5	353	31	10.2	2.7	324	30	17.0	5.3	292
1.5 „	19	10.3	0.9	019	31	8.1	1.9	260	29	8.0	3.1	235	28	13.6	6.0	038	30	10.9	3.6	358	29	12.9	5.1	020
2.1 „	12	10.5	2.3	219	31	9.1	3.6	259	27	7.7	5.0	228	28	11.9	6.7	017	28	10.9	5.3	002	26	11.5	9.0	033
3.0 „	10	15.1	10.5	221	31	10.4	5.6	243	23	9.5	4.5	225	20	10.7	3.9	343	24	10.8	8.5	015	25	11.5	8.4	021
3.6 „	9	16.9	12.2	218	..	..	..	..	2	13.5	13.0	130	16	8.5	2.3	351	19	10.3	7.0	011	22	9.8	4.1	355
4.5 „	7	13.0	3.6	197	31	11.0	4.5	262	1	9.0	9.0	090	9	8.1	3.3	011	15	8.6	4.7	018	13	7.3	1.6	067
5.4 „	7	11.7	2.5	199	31	11.1	4.1	262	1	12.0	12.0	090	4	7.5	4.5	052	13	9.3	5.8	053	11	8.1	4.5	084
6.0 „	6	11.3	4.2	288	31	10.8	5.4	258					2	5.0	5.0	032	10	11.8	7.5	051	8	10.7	7.7	097
7.2 „	5	16.0	8.0	306	31	11.7	7.6	273									8	10.4	4.6	052	2	13.0	11.0	095
9.0 „	5	20.2	15.6	301	27	13.3	7.9	271									4	10.5	9.5	126				

Station	GANNAVARAM								GAUHATI															
	0530				1730				2330				0530*				1130				1730*			
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Ht. in Km.																								
Surface	31	3.0	1.9	004	31	4.3	2.5	070	31	2.7	2.1	059	31	0.9	0.6	010	31	3.5	2.1	001	31	1.4	0.7	244
0.15 a. g.	28	8.6	3.7	020	30	9.1	5.1	066	30	7.6	4.3	085	31	4.6	0.9	025	29	6.0	3.2	358	31	6.8	1.7	300
0.3 a. s. 1	28	10.2	4.0	053	30	10.1	6.1	050	30	8.9	5.1	078	31	6.2	0.5	007	29	5.8	1.8	003	31	6.9	3.3	285
0.6 „	28	11.1	5.2	055	29	9.6	5.4	024	30	9.8	5.4	051	31	7.9	0.9	240	29	7.2	1.1	043	31	7.5	3.6	265
0.9 „	25	11.1	6.6	056	29	10.1	6.6	016	27	9.9	5.9	029	31	10.2	2.2	262	27	9.7	1.3	165	31	8.8	4.7	268
1.5 „	24	10.0	5.0	026	27	11.7	7.4	022	26	10.0	6.5	026	31	11.7	5.5	245	23	10.6	5.1	219	31	11.3	9.5	252
2.1 „	22	8.2	3.9	027	22	9.7	5.2	006	23	7.7	3.0	006	30	12.8	9.8	262	17	10.1	6.8	237	31	13.0	11.0	250
3.0 „	16	7.1	0.0	045	19	9.3	1.5	354	15	6.5	1.1	264	30	13.6	12.6	260	15	9.5	8.4	248	31	14.1	12.6	263
3.6 „	9	8.1	1.8	231	14	11.0	2.7	312	12	5.9	1.5	256	30	16.5	14.8	265	11	13.7	10.0	243	31	15.6	14.2	267
4.5 „	8	7.1	1.9	324	11	9.2	3.5	249	8	6.6	3.2	151	30	17.0	14.6	266	8	18.0	7.6	266	31	19.1	15.5	272
5.4 „	6	7.5	2.5	063	8	9.4	4.0	271	6	7.7	3.5	137	30	20.1	17.7	268	6	17.5	4.9	287	31	20.5	18.1	275
6.0 „	6	9.5	5.1	064	7	12.1	4.8	284	4	5.7	3.4	068	30	23.7	20.5	267	6	19.0	9.0	300	31	21.9	18.8	274
7.2 „	6	7.2	4.2	072	6	10.7	3.4	289	1	13.0	13.0	080	30	22.3	19.5	270	6	20.0	14.5	282	31	23.7	20.3	271
9.0 „	2	12.5	8.1	277	1	6.0	6.0	190					21	27.7	26.0	266	6	30.5	28.0	288	19	30.8	27.1	260

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

October 1958 (Asvina 9—Kartika 9, 1880 Saka)

Station	GAUHATI				GAYA								GOPALPUR											
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	2.0	0.4	191	31	1.7	1.2	183	31	2.2	0.6	030	31	1.5	0.7	139	31	2.9	1.6	353	31	3.9	2.0	130
0.15 a.g. .	28	2.4	1.2	229	26	8.0	2.9	184	28	7.8	3.2	017	28	6.9	0.9	110	27	10.4	4.6	350	28	9.7	5.3	127
0.3 a.s.1. .	28	5.8	0.9	267	26	7.9	2.7	193	28	8.0	3.0	003	28	6.7	1.2	092	27	9.2	1.9	088	28	9.5	5.0	121
0.6 „ .	28	8.5	2.3	270	26	9.2	1.3	216	28	8.2	0.9	344	28	7.8	0.6	124	26	10.0	4.0	113	28	10.0	4.9	105
0.9 „ .	28	9.3	4.9	255	26	9.0	1.1	203	28	8.0	1.0	307	28	8.0	1.3	255	25	9.6	4.1	096	27	9.7	4.6	087
1.5 „ .	25	11.4	8.5	249	26	8.2	0.6	315	28	8.7	2.7	235	27	8.9	3.7	246	24	8.4	3.1	110	22	9.4	3.0	073
2.1 „ .	18	10.4	9.4	255	22	10.5	0.9	059	26	10.9	4.3	223	23	12.6	2.7	230	21	7.4	1.0	196	17	8.3	0.9	260
3.0 „ .	13	14.5	12.6	250	18	11.9	2.6	150	19	11.9	4.3	247	19	9.9	3.2	245	18	8.8	3.9	209	13	9.0	3.1	251
3.6 „ .	5	9.0	3.8	151	14	10.9	3.0	208	16	13.8	6.5	256	8	10.2	7.4	255	15	8.5	4.3	189	10	9.0	5.5	252
4.5 „ .	3	8.3	2.1	073	9	11.8	4.5	240	5	16.0	10.6	255	5	15.4	11.1	223	14	9.3	2.9	173	10	11.5	5.5	219
5.4 „ .	3	9.0	6.6	035	8	13.5	4.9	243	2	12.0	12.0	280					10	9.1	3.3	188	7	9.9	2.2	101
6.0 „ .	2	12.0	11.7	043	3	15.3	7.0	253									10	8.8	1.0	179	5	10.8	3.4	069
7.2 „ .	1	35.0	35.0	350	2	16.5	5.0	270									6	10.5	2.9	073	2	12.0	11.9	135
9.0 „ .																	3	9.7	5.2	254				
Station	GOPALPUR				GORAKHPUR								GWALIOR											
Time in I.S.T.	2330				0530				1730				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	3.5	0.1	176	31	1.9	0.7	200	31	2.3	0.4	267	31	1.3	0.9	260	31	1.2	0.7	244	31	2.8	2.1	349
0.15 a.g. .	30	8.4	2.7	076	26	7.5	3.1	296	30	6.7	2.0	268	30	8.6	4.5	321	30	7.8	2.6	324	31	8.4	6.2	354
0.3 a.s.1. .	30	8.2	3.4	100	26	7.6	3.1	300	30	6.8	2.0	267	30	7.2	3.6	309	30	7.2	2.1	304	31	7.8	5.7	351
0.6 „ .	30	9.3	4.6	109	26	7.1	2.7	304	30	7.7	2.7	263	30	9.2	5.0	335	30	8.0	3.9	350	31	10.1	7.4	352
0.9 „ .	27	10.0	5.4	104	26	7.6	3.0	304	30	8.1	3.0	276	30	9.6	6.3	348	29	8.6	5.2	344	30	9.4	7.7	338
1.5 „ .	23	10.3	6.3	092	26	8.2	2.8	314	30	8.9	2.5	278	26	10.2	7.8	344	29	11.3	8.1	339	28	10.2	7.8	337
2.1 „ .	21	8.7	3.8	131	23	7.0	1.4	353	30	9.1	1.7	213	26	11.3	7.5	340	29	11.7	6.4	328	27	11.1	7.9	338
3.0 „ .	12	11.7	3.8	152	19	8.6	0.0	026	29	8.9	0.9	164	25	12.2	5.6	325	27	12.1	4.2	318	27	12.2	6.8	322
3.6 „ .	6	11.7	8.9	241	5	8.6	2.4	306	27	9.8	0.9	264	18	10.4	3.4	315	20	10.9	5.1	311	25	14.0	8.5	307
4.5 „ .	3	10.0	5.4	272	2	9.5	5.5	248	20	13.0	5.9	269	12	10.4	5.9	292	9	10.0	5.9	288	22	16.2	10.3	293
5.4 „ .	1	9.0	9.0	080	1	23.0	23.0	180	18	17.7	13.2	263	8	16.9	10.7	300	4	14.0	13.7	279	21	16.4	12.4	277
6.0 „ .					1	30.0	30.0	185	16	21.1	17.6	250	7	21.4	15.2	285	1	4.0	4.0	280	18	19.3	14.9	269
7.2 „ .									11	26.3	23.8	262	6	23.5	16.2	273					15	29.3	24.8	268
9.0 „ .									6	36.3	35.9	261	3	15.7	15.1	283					5	25.6	23.3	267

TABLE IV--MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level
October 1958 (Avina 9—Kartika 9, 1880 Saka)

Station	IMPHAL								JABALPUR																
	0530				1730				2330				0530				1730								
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D					
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D					
Surface	31	0.9	0.2	289	31	3.3	1.8	226	31	0.3	0.1	308	31	1.2	0.7	141	31	2.7	1.0	354	31	1.3	0.5	167	
0.15 a.g.	24	2.0	0.8	117	29	6.9	5.3	232	30	2.3	0.9	154	31	7.3	1.4	011	30	7.5	3.7	348	31	7.8	3.0	056	
0.3 a.m.s.l.																									
0.6	"												31	8.3	2.2	022	30	7.7	4.0	351	31	8.7	3.6	048	
0.9	"	24	1.8	0.8	141	29	6.5	5.1	233	30	2.0	0.6	132	30	10.6	4.1	022	30	9.1	5.2	351	31	10.1	4.6	033
1.5	"	22	4.9	2.1	223	28	5.9	4.2	243	30	5.5	4.1	227	24	11.9	6.8	005	30	10.9	4.9	347	31	11.3	4.3	012
2.1	"	17	8.2	4.9	238	28	6.8	4.8	249	28	8.3	5.4	234	23	11.1	6.3	350	27	11.8	5.2	309	28	12.5	3.4	001
3.0	"	8	10.1	5.6	259	23	10.8	6.9	257	20	10.4	6.5	244	20	11.3	5.2	329	21	11.3	5.1	336				21 11.2 5.5 323
3.6	"	8	11.0	6.4	256	18	12.6	6.7	253	17	10.7	6.8	242	15	10.5	4.2	346	19	12.1	6.2	307	18	10.9	6.4	296
4.5	"	7	12.4	8.3	273	9	13.6	6.6	263	5	10.8	7.9	267	12	10.7	0.7	238	18	12.2	6.4	281	9	11.1	5.0	249
5.4	"	4	13.0	10.3	262	2	6.5	6.3	266	4	13.3	6.2	266	8	11.7	4.3	225	17	13.2	8.5	274	1	9.0	9.0	235
6.0	"	3	12.3	7.6	265	2	11.5	10.7	226	4	13.0	7.4	252	7	11.4	5.5	218	15	14.2	10.7	280				
7.2	"	2	16.5	16.5	274					4	13.0	6.5	280	1	5.0	5.0	270	13	16.5	12.9	263				
9.0	"												1	9.0	9.0	060	6	19.5	17.1	242					
Station	JAGDALPUR								JAIPUR								JAMSHEDPUR								
Time in I.S.T.	0530				1730				2330				0530				1730				0530				
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Surface	31	0.8	0.3	019	31	2.1	1.0	029	31	1.1	0.7	053	31	2.4	1.7	352	31	3.6	0.4	190	31	1.3	0.3	348	
0.15 a.g.	26	9.0	6.1	057	26	9.2	4.5	036	28	9.5	6.7	061	31	8.2	2.8	327	31	8.7	5.3	014	30	4.8	1.9	310	
0.3 a.m.s.l.																				30	4.9	1.5	323		
0.6	"	26	5.8	3.6	044	26	6.1	2.7	029	28	6.5	4.4	055	31	8.6	3.1	324	31	9.1	5.0	354	31	7.7	0.6	292
0.9	"	25	10.3	7.1	063	26	10.0	5.5	034	28	11.0	7.9	063	31	8.3	3.9	335	31	8.7	5.7	342	30	9.6	0.9	286
1.5	"	22	12.7	7.2	066	25	10.4	5.4	046	27	10.7	6.3	078	31	10.3	7.8	350	31	8.3	6.6	333	30	9.0	1.8	259
2.1	"	20	11.2	5.0	087	20	10.3	5.2	049	27	10.1	4.4	100	31	11.3	9.7	348	30	7.9	7.3	334	28	8.9	1.9	238
3.0	"	12	10.7	3.8	152	16	10.2	1.4	178	19	9.5	1.9	200	30	13.2	11.2	342	28	11.3	8.2	335	24	10.1	4.9	205
3.6	"	7	12.0	5.3	040	10	12.5	2.0	215	10	9.0	3.7	233	11	11.8	8.7	326	24	12.8	8.9	334	15	9.0	4.0	183
4.5	"	3	10.7	7.6	097	7	9.3	1.1	344	6	8.8	2.0	164	7	11.0	5.6	333	21	13.5	8.1	296	12	10.2	4.4	194
5.4	"	3	12.0	9.6	077	5	11.6	5.9	142	4	7.5	0.7	240	6	19.0	11.0	296	16	17.4	11.2	271	10	9.0	4.7	268
6.0	"	1	2.0	2.0	315	2	16.5	15.7	101	2	8.0	8.0	330	2	21.5	9.7	286	13	24.4	20.6	265	10	10.1	5.9	271
7.2	"					1	15.0	15.0	100	2	6.0	5.9	357					5	36.8	35.9	257	8	8.0	7.4	290
9.0	"																2	53.0	51.3	255	5	13.4	8.7	278	

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

October 1958 (Asvina 9—Kartika 9, 1880 Saka)

Station	JAMSHEDPUR				JHARSUGUDA								JODHPUR											
	1730				0530				1730				2330				0530*							
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Ht. in Km.																								
Surface.	31	2.5	1.2	074	31	3.3	2.3	038	31	2.9	1.1	108	31	2.1	0.8	051	30	2.1	0.9	035	31	3.2	0.5	134
0.15 a. g.	28	6.7	2.5	079	28	8.6	5.0	063	31	7.1	2.6	134	28	7.3	3.1	092	30	4.1	0.8	014	31	5.0	0.6	095
0.3 a. m.s. 1.	28	6.6	2.0	081	28	7.6	5.1	052	31	6.2	1.8	130	28	6.4	2.9	079	30	4.6	1.2	030	31	4.6	0.3	030
0.6 ..	29	6.6	1.3	074	28	9.4	3.8	091	31	7.5	3.0	113	28	8.4	3.2	104	30	6.3	1.2	328	31	5.7	0.1	012
0.9 ..	31	7.2	0.4	125	28	9.9	2.6	095	31	9.0	2.4	106	29	8.8	2.6	119	30	8.1	2.1	275	31	7.0	1.3	300
1.5 ..	30	8.5	2.5	247	26	8.8	2.0	082	31	10.6	2.2	080	28	8.0	1.9	113	30	8.1	3.1	320	31	9.0	2.7	320
2.1 ..	30	9.5	4.6	243	22	9.0	7.9	313	31	11.1	1.3	118	27	9.3	1.5	145	30	9.1	4.6	347	30	10.1	3.9	354
3.0 ..	24	11.4	5.9	237	13	9.6	4.4	250	27	12.3	5.6	227	20	10.1	6.6	234	30	11.0	8.1	011	30	11.5	5.0	033
3.6 ..	22	11.9	6.8	224	6	8.2	3.9	232	24	13.3	6.7	229	15	9.7	6.1	235	30	10.5	5.1	352	30	10.5	2.7	002
4.5 ..	14	9.7	3.3	177	1	4.0	4.0	160	11	11.5	7.2	229					28	11.0	4.0	287	29	10.9	4.3	296
5.4 ..	7	7.6	2.0	144					7	9.6	3.6	266					27	15.8	9.2	268	27	14.7	5.9	272
6.0 ..	4	8.3	3.1	130					1	5.0	5.0	250					27	19.5	13.5	266	25	19.0	9.9	252
7.2 ..	1	3.0	3.0	200												27	26.6	23.0	255	15	17.1	13.1	241	
9.0 ..	.															24	33.8	32.5	251	4	18.2	15.7	237	
Station	JODHPUR								MADRAS															
Time in I.S.T.	1730*				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	4.2	1.5	022	31	3.6	0.4	040	31	5.9	0.2	258	31	6.2	3.1	321	31	6.8	3.6	090	31	4.3	0.7	214
0.15 a. g.	31	5.1	2.0	016	31	11.6	2.1	115	31	9.0	0.5	038	29	9.0	2.3	305	31	8.6	4.1	081	29	10.3	2.6	130
0.3 a. m.s. 1.	31	5.4	2.2	019	31	10.2	1.9	117	31	9.8	0.5	360	29	9.4	3.1	301	31	9.5	3.9	078	29	11.3	2.7	102
0.6 ..	31	6.0	2.3	011	31	11.6	1.6	117	31	11.8	3.1	321	29	10.2	4.8	317	31	10.6	3.7	006	29	11.7	1.7	037
0.9 ..	31	7.0	2.9	355	31	10.7	1.0	088	31	13.9	4.7	330	28	12.3	6.9	332	31	12.3	6.8	342	29	12.5	4.2	015
1.5 ..	31	8.0	3.5	345	31	8.9	1.6	353	31	15.7	7.8	353	24	12.1	8.0	352	31	14.1	9.8	325	29	14.3	6.6	352
2.1 ..	31	8.3	4.2	336	31	8.3	3.4	351	31	14.3	7.4	360	22	11.1	6.4	354	31	13.4	9.0	345	27	13.0	6.3	338
3.0 ..	31	9.5	4.4	337	30	9.8	5.2	350	31	12.1	4.9	017	14	9.3	4.8	335	31	11.4	5.8	360	23	9.3	3.7	012
3.6 ..	30	10.8	4.9	315	14	9.6	4.1	351	31	12.2	3.8	037	8	8.4	2.3	311	31	12.5	5.0	022	19	8.4	4.3	060
4.5 ..	29	12.6	7.4	315	7	10.6	3.9	338	31	12.9	4.4	080	5	8.8	3.5	213	31	13.2	4.7	062	3	8.7	5.6	145
5.4 ..	28	15.8	9.9	227	2	13.5	2.3	037	31	14.3	6.2	086	3	10.3	6.5	115	30	12.7	5.1	110				
6.0 ..	26	18.8	12.3	266	2	17.5	12.7	274	30	14.3	7.7	092	3	10.3	7.6	102	30	13.2	5.7	109				
7.2 ..	24	25.5	24.2	259	2	23.5	23.5	257	30	14.0	7.9	104	2	7.5	4.5	105	30	14.4	5.5	117				
9.0 ..	23	31.1	29.6	249	1	4.0	4.0	180	29	16.4	14.1	106	1	9.0	9.0	145	28	16.5	13.2	116				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 km. above mean sea level

October 1958 (Asvina 9—Kartika 9, 1880 Saka)

Station	MANGALORE								MINICOY																
	0530				1730				2330				0530				1730				2330				
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Surface.	31	3.5	2.1	065	31	6.8	5.3	298	31	4.5	2.0	023	31	7.5	6.9	293	31	5.0	4.5	305	31	7.0	6.3	298	
0.15 a. g.	28	8.4	4.4	338	31	11.1	8.1	299	31	9.5	4.8	332	29	13.5	12.5	292	27	14.1	12.8	300	31	13.2	11.9	297	
0.3 a. s. l.	28	9.4	6.0	330	31	12.5	9.7	305	31	10.5	6.7	321	29	13.6	12.7	294	27	14.2	13.0	300	31	13.9	12.7	299	
0.6 „	27	10.7	8.2	329	31	12.7	10.2	313	31	11.0	9.1	326	29	14.5	13.6	295	26	15.5	14.2	299	31	13.8	12.8	302	
0.9 „	27	10.8	8.2	326	31	11.7	8.3	320	31	10.2	7.3	320	28	14.1	13.2	295	25	15.7	14.5	295	31	13.7	12.8	302	
1.5 „	26	10.5	4.6	334	31	10.8	6.1	338	27	9.2	4.3	341	26	11.1	9.5	294	22	15.3	14.5	294	29	12.0	10.8	303	
2.1 „	23	8.9	4.2	358	27	11.4	5.9	357	25	11.0	3.7	025	21	9.8	6.4	303	20	13.0	11.8	297	21	10.0	7.1	310	
3.0 „	20	8.7	3.9	020	24	9.9	4.1	011	21	9.9	2.9	355	10	6.7	4.3	033	16	11.1	8.9	296	16	8.7	3.7	339	
3.6 „	8	5.9	1.3	038	15	8.7	2.9	042	16	7.5	2.9	021	7	5.7	4.5	058	11	10.9	6.5	306	11	6.7	2.3	019	
4.5 „	1	3.0	3.0	325	12	7.8	3.1	064	8	8.5	3.5	049	2	10.5	8.3	056	9	10.3	4.9	304	5	7.6	5.8	036	
5.4 „					9	8.1	1.0	035	2	11.0	9.5	078	1	10.0	10.0	025	5	9.6	5.0	024	1	9.0	9.0	135	
6.0 „					8	8.6	1.0	045	1	5.0	5.0	175	1	10.0	10.0	070	5	12.2	5.8	065					
7.2 „					6	7.0	3.0	085									1	21.0	21.0	105					
9.0 „					3	11.3	9.1	155									1	29.0	29.0	100					
Station	MOHANBARI								NAGPUR																
	0530				1730				2330				0530*				1130				1730*				
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Surface.	31	1.6	1.4	044	31	0.6	0.6	044	31	1.9	0.8	053	31	3.8	2.4	357	31	5.3	2.2	012	31	4.2	3.1	038	
0.15 a. g.	25	7.8	6.1	065	27	6.1	4.8	071	28	6.6	5.5	046	31	11.1	7.2	042	31	7.3	3.0	007	31	10.2	6.1	017	
0.3 a. s. l.	25	7.8	5.6	061	27	6.3	4.0	073	28	6.5	5.4	049													
0.6 „	25	7.3	3.2	051	27	5.8	3.2	093	28	6.1	3.5	070	31	10.2	5.9	042	31	7.6	3.3	037	31	8.7	5.3	019	
0.9 „	23	6.6	2.8	066	25	6.5	1.2	111	27	5.8	2.8	086	31	10.1	5.0	038	31	8.6	4.5	042	31	7.4	3.4	016	
1.5 „	22	6.7	1.5	166	23	5.7	2.8	209	26	7.2	3.0	207	31	10.7	4.8	030	29	9.9	4.3	033	31	8.9	4.5	012	
2.1 „	18	5.7	1.0	165	21	7.9	6.2	217	24	9.0	7.7	229	31	10.2	4.8	023	27	11.3	5.1	026	30	11.0	5.4	005	
3.0 „	16	7.7	6.2	246	19	9.6	7.4	229	21	13.1	12.4	224	30	9.9	3.8	009	21	9.5	4.7	011	30	10.5	3.1	354	
3.6 „	11	10.3	6.4	242	14	10.6	8.2	244	13	15.4	13.7	232	30	9.2	1.2	018	19	10.9	2.6	356	30	9.8	1.5	026	
4.5 „	8	13.5	6.9	268	7	14.7	14.0	241	7	13.5	7.9	257	30	8.8	2.3	296	18	9.8	1.8	285	30	9.8	2.7	247	
5.4 „	8	19.7	11.6	270	2	29.5	29.3	257	5	12.2	2.6	061	29	9.4	2.6	270	16	10.1	3.6	284	27	9.6	1.7	255	
6.0 „	7	19.7	13.4	282	1	17.0	17.0	245	3	13.0	4.2	228	29	8.8	2.4	276	15	12.3	4.5	288	27	9.4	3.3	269	
7.2 „	2	16.0	12.3	271									28	8.1	2.2	240	14	11.8	2.6	298	27	8.4	3.6	271	
9.0 „	2	24.5	14.4	302									25	8.6	2.8	233	8	8.4	4.7	230	22	9.0	3.9	232	

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 km. above mean sea level

October 1958 (Asvina 9—Kartika 9, 1880 Saka)

Station	NAGPUR				NANPARA				NEW DELHI															
Time in I. S. T.	2330				0530				1730				0530*			1130			1730*					
Ht. in Km.	n	v	v	D	n	v	v	D	n	v	v	D	n	v	v	D	n	v	v	D	n	v	v	D
Surface .	31	4.1	3.2	031	31	1.9	0.8	346	31	2.3	1.4	296	30	3.1	2.4	295	31	5.9	3.8	305	31	2.5	1.7	322
0.15 a. g. .	31	10.0	8.1	040	30	6.5	1.2	343	30	7.5	5.0	292	30	10.5	6.2	322	30	7.0	4.7	310	31	9.7	6.0	337
0.3 a. s. l. .	31	10.7	8.0	044	30	6.9	1.4	314	30	7.7	4.7	293	30	9.5	5.4	323	30	7.5	5.0	315	31	9.1	5.8	334
0.6 „ .	31	10.4	7.4	042	30	7.5	1.8	303	30	8.1	4.5	290	30	9.6	6.6	324	30	8.6	6.1	316	31	9.3	6.3	329
0.9 „ .	30	9.8	5.1	032	29	7.4	2.2	309	30	8.4	4.3	287	30	9.6	7.3	326	29	11.1	8.9	320	31	9.9	6.9	324
1.5 „ .	27	9.3	4.7	347	28	7.5	2.0	314	30	8.7	1.4	245	30	11.8	9.1	321	28	12.8	9.6	324	31	10.2	7.9	318
2.1 „ .	22	9.1	3.2	328	22	6.8	1.1	090	30	8.3	0.8	255	30	9.3	9.0	328	27	13.6	7.8	317	31	10.3	8.1	318
3.0 „ .	13	7.8	2.6	006	19	7.6	1.6	259	28	10.1	2.4	127	30	14.1	8.3	331	26	13.9	5.7	335	31	12.1	6.2	323
3.6 „ .	7	9.3	2.7	069	14	8.4	4.6	266	23	10.3	1.2	173	30	13.6	6.8	322	26	13.9	5.6	334	31	9.1	6.2	324
4.5 „ .	2	7.5	3.5	280	8	17.6	15.2	253	20	13.0	5.3	264	30	13.7	6.1	268	24	12.7	4.2	302	31	14.1	7.9	298
5.4 „ .	1	12.0	12.0	260	5	23.0	22.3	248	16	17.7	13.9	281	30	17.0	12.7	260	23	17.3	12.4	267	31	18.4	13.8	274
6.0 „ .	1	13.0	13.0	235	2	26.0	25.7	239	15	21.1	17.1	270	30	20.1	15.7	262	22	19.4	15.5	268	31	26.5	17.3	267
7.2 „ .									8	33.2	30.7	267	30	28.9	24.8	255	20	31.0	27.7	270	31	32.9	28.6	263
9.0 „ .									4	60.2	58.2	259	30	43.1	40.8	257	14	44.8	42.1	264	31	42.4	40.6	258
Station	NEW DELHI				POONA				PORT BLAIR															
Time in I. S. T.	2330				0530				1730				2330			0530*			1130					
Ht. in Km.	n	v	v	D	n	v	v	D	n	v	v	D	n	v	v	D	n	v	v	D	n	v	v	D
Surface .	31	1.8	0.9	308	31	1.4	0.5	190	31	3.9	2.0	286	31	1.6	0.9	228	31	2.1	1.3	115	31	4.1	1.6	153
0.15 a. g. .	31	9.1	4.9	343	31	5.5	2.0	003	31	8.9	4.0	294	31	7.6	4.0	297	31	8.8	3.7	187	31	7.7	2.2	146
0.3 a. s. l. .	31	7.8	3.9	333													31	8.9	3.7	186	31	7.7	2.7	150
0.6 „ .	31	8.9	5.8	334	31	3.6	1.6	220	31	6.3	2.7	286	31	4.1	2.6	249	31	10.6	4.6	185	31	8.3	3.2	158
0.9 „ .	31	9.3	7.3	327	31	8.4	5.4	044	31	9.4	3.4	305	31	9.3	4.5	334	31	12.1	4.3	175	29	8.6	3.7	145
1.5 „ .	31	11.2	8.9	318	29	12.1	9.9	065	30	7.9	2.0	023	29	11.4	8.4	044	31	11.3	5.1	152	28	9.3	4.7	130
2.1 „ .	30	11.9	8.9	312	25	8.4	5.8	074	28	7.9	4.3	064	28	9.5	8.1	078	31	11.6	4.8	148	20	11.3	5.7	116
3.0 „ .	27	9.1	8.4	329	20	7.6	1.6	332	27	9.6	3.9	064	25	7.8	3.3	100	31	13.5	3.7	140	16	12.4	5.7	112
3.6 „ .	16	11.1	3.1	033	20	7.9	1.8	305	25	9.4	0.8	216	22	7.2	2.2	261	31	13.4	4.6	107	15	12.1	7.2	098
4.5 „ .	7	14.3	9.7	317	8	6.1	3.4	355	23	10.3	4.3	250	15	7.7	2.4	316	31	13.0	6.0	095	13	12.0	8.4	102
5.4 „ .									22	9.5	3.0	217	8	7.7	1.6	351	31	12.7	9.5	096	9	11.9	9.2	090
6.0 „ .									21	9.4	1.4	150	7	10.0	3.1	025	31	12.6	8.8	096	8	11.6	8.6	097
7.2 „ .									18	9.2	0.4	108	6	8.7	2.4	073	29	14.6	12.2	091	7	10.4	5.8	099
9.0 „ .									14	9.7	4.1	127	3	12.7	9.5	234	28	17.6	14.8	091	4	12.5	10.8	089

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

October 1958 (Asvina 9—Kartika 9, 1880 Saka)

Station	PORT BLAIR								RAIPUR								RAXAUL				
	1730*				2330				0530				1730				2330				0530
Time in I. S. T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n
Surface.	31	3.3	0.9	144	31	2.8	1.3	159	31	3.4	0.9	061	31	3.0	1.2	048	31	3.6	1.3	053	31
0.15 a. g.	31	9.9	3.8	189	31	6.1	3.1	194	29	10.2	3.5	058	29	7.9	3.1	034	24	9.4	3.9	053	29
0.3 a. m. s. l.	31	10.0	3.8	190	31	6.4	3.2	194													29
0.6 ,,	31	11.1	4.7	191	31	6.5	2.9	194	29	11.4	4.3	069	29	8.3	3.1	048	24	10.4	5.0	054	29
0.9 ,,	31	11.1	5.0	177	31	6.8	3.0	178	28	10.9	4.9	072	29	9.0	3.4	055	24	10.8	5.2	052	29
1.5 ,,	31	12.3	5.4	154	28	6.6	2.5	159	26	10.5	3.9	055	27	11.3	2.9	036	24	10.3	4.7	035	29
2.1 ,,	31	11.7	4.9	149	27	6.6	2.9	141	22	10.9	3.1	013	22	11.9	3.4	001	24	11.2	3.8	039	29
3.0 ,,	31	12.7	3.6	105	24	6.5	2.6	125	17	9.9	3.5	298	20	12.7	2.8	246	19	10.9	2.6	257	29
3.6 ,,	31	12.7	4.7	110	19	6.7	2.9	084	8	11.0	5.2	260	17	11.5	3.4	253	13	9.8	4.7	291	28
4.5 ,,	31	12.8	5.9	092	13	7.5	5.3	081	4	8.2	6.0	353	12	11.7	6.0	265	1	7.0	7.0	035	22
5.4 ,,	30	12.8	7.5	083	5	9.2	7.5	115	1	6.0	6.0	005	10	9.8	5.4	241					17
6.0 ,,	30	14.6	9.9	085	3	7.0	5.4	095	1	5.0	5.0	020	10	9.2	5.3	262					14
7.2 ,,	30	14.0	10.1	082									5	8.4	6.0	257					11
9.0 ,,	27	16.1	14.5	092									2	8.5	6.9	189					7
Station	RAXAUL				SANTA CRUZ								TEZPUR								
Time in I. S. T.	1730				0530*				1130				1730*				2330				0530
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n
Surface.	31	1.5	0.6	233	31	2.4	1.5	090	31	4.9	0.8	086	31	8.3	5.0	065	31	1.8	0.5	114	31
0.15 a. g.	29	6.4	3.6	266	30	11.1	7.1	038	31	6.7	1.6	065	30	14.2	9.1	315	31	9.3	4.7	010	29
0.3 a. m. s. l.	29	6.3	3.5	267	31	10.8	7.2	042	31	7.6	2.6	080	31	13.2	8.0	316	31	10.5	5.4	015	29
0.6 ,,	29	6.4	3.5	269	31	10.2	5.4	044	30	8.3	4.3	088	31	11.6	5.6	342	31	11.1	6.1	030	29
0.9 ,,	29	7.2	3.1	270	31	9.6	5.3	062	25	9.4	6.1	086	31	9.7	3.4	012	31	10.4	4.8	047	27
1.5 ,,	28	6.9	1.6	281	31	9.9	7.1	069	18	10.9	8.3	073	31	9.6	4.3	093	30	8.4	5.2	067	25
2.1 ,,	28	7.5	1.3	266	31	9.2	5.5	089	16	10.8	5.5	071	31	11.2	6.0	103	28	9.5	6.7	100	19
3.0 ,,	27	8.1	1.1	239	30	9.9	3.0	121	14	10.6	4.1	040	31	11.5	5.2	117	25	9.8	4.5	121	14
3.6 ,,	12	9.6	1.9	239	30	10.5	2.0	162	13	10.1	3.1	339	31	10.8	3.3	140	15	12.2	2.3	119	12
4.5 ,,	2	8.5	5.0	254	30	11.7	2.3	267	13	10.1	1.9	278	30	11.2	3.1	187	9	12.8	5.0	198	8
5.4 ,,	1	7.0	7.0	325	30	11.8	3.5	237	13	11.4	3.2	245	29	11.5	3.5	206					7
6.0 ,,					30	11.9	3.5	235	13	11.5	2.8	230	29	11.7	4.3	200					5
7.2 ,,					29	11.8	3.2	203	12	11.7	2.8	220	29	12.0	3.8	183					4
9.0 ,,					24	13.0	6.1	178	10	15.1	6.6	199	26	13.5	6.0	190					33.7

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

October 1953 (Asvina 9—Kartika 9, 1880 Saka)

Station	TEZPUR								TIRUCHIRAPALLI								TRIVANDRUM							
	1730				2330				0530				1730				2330				0530*			
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Ht. in Km.																								
Surface	31	1·3	0·6	092	31	1·3	0·4	058	31	5·2	4·8	277	31	5·8	1·4	350	31	6·3	2·7	257	31	4·7	4·3	330
0·15 a. g.	31	8·2	2·3	099	29	7·8	2·4	102	31	13·5	11·6	286	30	9·2	2·2	343	28	10·6	4·3	238	31	6·7	5·7	331
0·3 a. m. s. l.	31	8·4	1·9	111	29	8·3	2·3	113	31	14·3	12·2	285	30	9·5	2·6	335	28	11·1	4·6	242	31	9·9	8·8	325
0·6 „	31	7·7	1·8	203	29	8·3	2·0	230	31	14·2	11·4	289	30	10·2	3·7	310	28	12·9	4·7	273	31	12·6	11·8	316
0·9 „	31	8·4	4·5	237	28	8·8	3·6	247	31	12·2	8·0	305	30	10·8	5·3	309	28	13·3	5·6	303	31	15·4	12·3	300
1·5 „	30	11·4	8·0	240	24	9·0	6·4	219	31	12·0	8·4	343	30	12·6	7·8	311	28	11·6	6·3	327	31	14·1	11·6	305
2·1 „	24	11·5	9·7	249	18	9·0	5·8	248	29	13·0	10·1	341	30	12·4	8·4	320	26	11·3	7·7	338	31	13·2	9·7	306
3·0 „	13	12·3	11·4	257	15	11·2	9·8	253	26	10·5	5·3	331	28	11·2	7·1	328	21	11·7	6·8	351	31	11·9	7·4	317
3·6 „	8	13·6	11·7	260	9	9·6	6·6	248	25	10·4	3·4	314	24	11·2	7·4	349	11	9·8	4·8	035	31	11·5	5·9	319
4·5 „	4	11·7	5·6	275	6	13·2	3·9	265	20	10·3	0·6	301	21	11·1	5·1	021	9	9·0	4·5	109	31	10·9	3·4	320
5·4 „	1	13·0	13·0	270	3	12·7	7·5	033	16	10·4	2·1	160	17	12·3	5·1	059	2	13·5	13·4	083	31	11·6	2·6	360
6·0 „	1	14·0	14·0	250	2	16·0	9·3	025	15	10·5	1·7	119	12	10·5	5·0	041	2	11·5	11·5	055	31	11·9	1·4	352
7·2 „					1	5·0	5·0	275	4	8·7	7·7	084	6	11·8	2·2	083					31	15·9	6·0	080
9·0 „									3	11·3	13·9	098	4	11·7	8·6	110					23	18·3	12·1	101

Station	TRIVANDRUM								UDAIPUR																
	1130				1730*				2330				0530				1730				2330				
Time in I. S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Ht. in Km.																									
Surface	31	7·1	6·5	302	30	7·7	7·2	293	31	4·8	4·4	330	31	0·1	0·1	180	31	1·3	0·6	325	31	0·2	0·2	285	
0·15 a. g.	31	10·6	9·5	302	30	8·6	7·9	296	29	11·5	10·9	323	30	4·6	2·0	340	30	6·2	1·8	345	31	4·4	1·6	345	
0·3 a. m. s. l.	31	11·1	10·1	307	30	9·3	9·1	304	29	13·7	13·2	326													
0·6 „	31	12·3	11·1	314	30	11·2	10·7	302	29	17·8	16·8	323													
0·9 „	30	14·5	13·0	314	30	12·9	11·9	306	29	17·3	16·1	320	30	6·3	2·1	004	30	7·2	2·6	355	31	6·7	2·4	039	
1·5 „	14	10·7	9·2	319	30	13·4	11·2	309	26	15·2	13·5	320	30	8·2	3·8	063	30	7·9	4·3	013	31	8·5	4·6	057	
2·1 „	8	8·6	6·1	020	30	12·5	8·8	317	20	12·6	9·3	328	30	8·6	4·7	029	29	9·2	6·1	023	29	8·9	5·4	045	
3·0 „	4	7·5	7·3	036	30	11·9	7·3	311	13	11·1	7·7	352	30	8·9	5·1	013	28	10·1	5·9	017	29	10·0	5·1	021	
3·6 „	4	7·0	6·8	052	30	10·7	5·4	304	8	8·4	6·6	009	29	8·6	3·0	354	26	10·7	5·1	351	26	9·7	4·1	342	
4·5 „	3	11·7	7·7	032	30	9·7	3·2	306	7	15·6	10·5	007	17	10·9	2·8	268	21	11·4	4·6	312	18	11·5	3·6	301	
5·4 „	1	11·0	11·0	060	30	11·3	2·0	310	3	8·3	3·7	153	4	16·2	15·7	240	17	10·2	3·7	323	8	15·3	8·7	262	
6·0 „	1	17·0	17·0	060	30	12·1	1·0	323	2	9·5	5·5	138	1	29·0	29·0	235	16	10·7	4·9	290	3	15·3	8·9	285	
7·2 „					30	12·9	4·1	081									12	14·4	11·6	271					
9·0 „					27	17·1	14·4	100									9	18·0	17·1	258					

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

October 1958 (Asvina 9-Kartika 9, 1880 Saka)

Station	VENGURLA								VERAVAL																
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*				
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Surface	.	31	1·3	0·8	119	31	6·3	3·3	267	31	1·6	0·2	062	31	8·1	2·8	034	31	9·5	1·3	053	31	10·7	4·4	250
0·15 a. g.	.	30	8·9	5·9	006	28	9·9	7·9	291	29	10·3	7·4	347	31	15·0	6·6	013	31	8·8	2·3	088	31	12·9	4·4	240
0·3 a.m.s.l.	.	30	11·4	7·3	357	28	11·4	9·0	301	29	13·1	9·7	339	31	14·4	6·7	028	31	9·2	3·0	083	31	12·5	3·2	230
0·6 „	.	30	12·9	6·7	356	28	10·5	7·6	313	29	13·7	10·4	332	31	13·2	5·7	068	30	9·5	5·5	098	31	11·0	3·1	225
0·9 „	.	27	12·8	6·2	006	27	9·3	4·6	332	27	11·1	9·4	335	31	11·8	7·2	095	29	9·6	6·9	099	31	10·1	3·5	105
1·5 „	.	24	10·0	6·4	045	27	9·3	3·7	037	25	10·0	6·9	025	31	11·3	6·7	113	26	9·7	7·3	110	31	11·0	5·3	103
2·1 „	.	24	8·7	6·2	069	27	10·7	4·7	042	23	12·7	9·5	058	31	12·6	8·2	115	25	10·7	7·5	115	31	12·6	6·4	105
3·0 „	.	23	8·6	1·8	003	24	8·4	2·0	001	22	9·5	3·7	067	31	12·8	7·4	123	24	11·3	5·6	111	31	13·5	5·6	122
3·6 „	.	18	7·7	1·4	296	23	6·6	2·1	292	12	7·9	1·7	307	31	13·1	6·1	151	24	11·3	1·9	127	31	13·8	4·2	150
4·5 „	.	5	7·4	3·7	051	21	6·0	2·2	273	2	4·0	1·3	160	31	11·7	4·2	207	22	10·3	3·0	184	31	13·5	4·1	195
5·4 „	.	2	9·0	2·0	004	20	6·7	1·3	295	2	6·5	1·5	095	31	12·5	6·5	232	21	10·7	6·2	222	31	13·8	7·3	227
6·0 „	.	2	11·5	6·5	125	20	7·9	0·9	024	2	8·5	4·3	073	31	13·2	8·1	239	21	13·4	8·9	226	31	14·3	9·1	223
7·2 „	.					15	11·0	6·4	065					31	14·9	10·4	228	21	17·1	11·8	224	31	15·8	12·0	219
9·0 „	.					8	11·0	8·2	088					29	17·8	14·3	223	17	14·9	12·8	212	30	16·9	13·7	211

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9.0 km. above mean sea level

October 1958 (Asvina 9—Kartika 9, 1880 Saka)

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9.0 km, above mean sea level

October 1958 (Asvina 9—Kartika 9, 1880 Saka)

Ht. in Km.	n	V	v	D	Ht. in Km.	n	v	V	D	Ht. in Km.	n	V	v	D	Ht. in Km.	n	V	v	D								
MANGALORE																											
1730 hrs.																											
10.5	3	16.3	14.4	135	10.5	8	51.3	49.5	259	10.5	3	11.3	10.0	325	18.0	2	29.0	29.0	064								
12.0	3	22.0	18.2	141	12.0	5	40.6	40.6	264	12.0	2	17.0	13.7	230	21.0	1	26.0	26.0	110								
14.1	2	36.5	36.3	125	14.1	1	51.0	51.0	280	14.0	1	12.0	12.0	350		UDAIPUR											
16.2	1	11.0	11.0	130	16.2	1	74.0	74.0	280			SANTA CRUZ				10.5	1730 hrs.										
18.0	1	31.0	31.0	115		1730 hrs.*						0530 hrs.*				4	19.5	18.5	236								
MOHANBARI																											
0530 hrs.																											
10.5	2	24.5	17.9	306	10.5	31	46.9	45.1	257	10.5	21	13.2	7.7	180	12.0	2	33.0	32.1	257								
12.0	1	35.0	35.0	325	12.0	31	52.5	48.5	258	12.0	16	18.6	13.1	170	14.1	1	22.0	22.0	260								
14.1		NAGPUR				14.1	25	42.6	40.8	258	14.0	12	17.5	14.1	132	16.2	1	23.0	23.0	230							
16.2		0530 hrs.*				16.2	14	24.6	23.6	251	16.2	5	19.4	18.6	095	18.0	1	51.0	51.0	260							
18.0		1130 hrs.										1130 hrs.				VENGURLA											
20.0		1730 hrs.										1730 hrs.				0530 hrs.*											
10.5	22	11.3	5.1	201	21.0	2	13.5	13.3	207	12.0	6	11.7	8.9	198	10.5	3	15.3	12.1	104								
12.0	18	13.1	6.3	223		POONA				14.1	6	21.7	20.3	165	12.0	2	14.5	12.3	113								
14.1	11	16.7	9.0	142		1730 hrs.				16.2	5	20.2	15.8	146	14.1	1	11.0	11.0	155								
16.2	8	12.1	10.0	098	10.5	11	11.0	8.2	152	18.0	4	19.7	18.7	133		VERAVAL											
18.0	5	10.6	3.3	059	12.0	11	17.4	14.4	151	21.0	4	32.5	31.5	099		0530 hrs.*											
20.0	2	16.5	16.5	070	14.1	7	18.1	15.7	144	24.0	1	13.0	13.0	095	10.5	27	20.8	16.7	218								
22.0	2	20.5	20.3	077	16.2	5	28.0	22.2	127		1730 hrs.*				12.0	26	23.5	19.0	203								
24.0	1	19.0	19.0	080		PORT BLAIR				10.5	21	15.0	7.5	203	14.1	17	24.7	18.7	195								
1130 hrs.																											
10.5	7	10.0	6.2	221	10.5	21	23.6	22.6	094	14.1	8	22.8	19.3	140	18.0	4	18.7	18.4	094								
12.0	6	14.3	7.9	244	12.0	18	29.1	27.8	093	16.2	5	24.6	22.4	105		1130 hrs.											
14.1	4	16.7	4.8	158	14.1	12	35.7	34.6	083	18.0	1	20.0	20.0	090	10.5	9	14.7	12.4	207								
16.2	3	19.0	15.0	152	16.2	5	36.6	36.2	083	21.0	1	19.0	19.0	090	12.0	6	10.2	5.6	212								
18.0	2	12.5	10.8	165	18.0	3	29.7	24.5	084		TIRUCHIRAPALLI				14.1	5	14.4	9.7	187								
20.0	1	19.0	19.0	130		0530 hrs.					1730 hrs.				16.2	4	16.7	15.6	177								
1730 hrs.																											
10.5	21	9.8	3.0	193	10.5	4	13.7	12.4	108		1130 hrs.				18.0	2	22.0	21.2	139								
12.0	20	14.0	5.4	198	12.0	1	13.0	13.0	125	10.5	1	20.0	20.0	105	24.0	2	20.5	20.5	112								
14.1	13	17.1	11.9	145		1730 hrs.*				12.0	1	23.0	23.0	125	27.0	1	19.0	19.0	095								
16.2	8	10.4	8.1	172	10.5	21	19.7	18.1	103	14.1	1	34.0	34.0	100		1730 hrs.*											
18.0	4	13.2	10.1	149	12.0	16	26.8	25.2	098		TRIVANDRUM				10.5	29	18.3	12.3	219								
NEW DELHI																											
0530 hrs.*																											
10.5	30	50.6	48.5	255	14.1	10	37.6	34.7	087	10.5	19	22.9	20.1	101	14.1	18	17.4	7.2	172								
12.0	30	51.2	49.2	257	16.2	7	36.9	36.6	091	12.0	17	33.0	32.4	094	16.2	13	19.2	13.0	103								
14.1	25	46.6	45.2	255	21.0	3	58.4	57.6	094	14.1	11	47.6	45.0	093	18.0	8	19.4	17.5	097								
16.2	23	37.8	29.0	261	24.0	1	90.0	90.0	099	16.2	7	32.0	29.0	075	21.0	1	16.0	16.0	115								
18.0	5	20.8	17.8	266	27.0	1	36.0	36.0	090	18.0	1	29.0	29.0	070		1730 hrs.*											
20.0	4	29.0	15.1	293		RAIPUR				10.5	25	25.3	24.0	096													
22.0	2	7.0	6.5	323		1730 hrs.				12.0	19	36.3	34.7	092													
24.0	1	11.0	11.0	040	10.5	1	12.0	12.0	040	14.1	13	39.5	34.6	095													
26.0	1	24.0	24.0	030	12.0	1	8.0	8.0	090	16.2	5	29.6	25.2	081													

RADIOSONDE DATA**October 1958 (Asvina 9—Kartika 9, 1880 Saka)**

During the month, observations of upper air temperature, pressure and humidity were made at 13 stations in India as given in the list below. For a detailed description of the instruments used, a reference may be made to the I.M.D. Scientific Notes Nos. 112 and 113 (Volume IX).

LIST OF RADIOSONDE STATIONS IN INDIA

S. No.	Name of station	Type of instrument used	Date of starting	Hours of routine observations in G.M.T. during the month	Remarks
1	Allahabad	Clock type	1st October 1944	00 and 12	
2	Amritsar	Clock type	21st June 1957	00 and 12	
3	Bombay	Clock type	7th September 1954	00 and 12	
4	Calcutta	Clock type	13th December 1946	00 and 12	
5	Gauhati	Clock type	22nd July 1955	00 and 12	Fan type used from 13-12-46 to 30-11-47.
6	Jodhpur	Clock type	17th April 1946	00 and 12	
7	Madras	Fan type	29th June 1946	00 and 12	
8	Nagpur	Fan type	1st October 1946	00 and 12	
9	New Delhi	Clock type	3rd December 1943	00 and 12	
10	Port Blair	Fan type	4th December 1949	00 and 12	
11	Trivandrum	Fan type	1st July 1947	00 and 12	
12	Veraval	Fan type	3rd October 1944	00 and 12	
13	Visakhapatnam	Fan type	8th December 1946	00 and 12	

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES
 (A) From Ascents at 00 Hours G. M. T.
 October 1958 (Asvina 9—Kartika 9 1880 Saka)

Standard Pressure Surface mbs.	ALLAHABAD Surf. Pr. (998 mb.)							AMRITSAR (984 mb.)							BOMBAY (1007 mb.)						
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A						
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			
Surface	31	098	295.7	301	290	293.5	24	230	292.2	298	287	290.0	31	013	297.0	301	293	294.9			
1000	30	75	..	..	..	..	24	090	..	..	..	..	30	077	..	..	..	..
900	30	999	294.7	298	290	286.9	24	1002	293.7	299	290	280.3	30	998	294.7	299	292	287.1			
850	30	1492	291.5	295	288	282.6	24	1492	290.6	295	288	274.5	30	1495	292.2	296	289	282.9			
800	30	2009	288.3	293	283	279.9	24	2007	287.3	291	284	271.6	30	2014	288.9	293	286	280.6			
700	30	3130	282.9	286	279	269.8	24	3120	280.6	288	274	261.7	30	3137	282.8	287	277	274.4			
600	30	4398	277.0	281	273	262.3	24	4372	272.7	280	266	253.2	30	4406	277.3	281	274	262.3			
500	29	5861	269.3	274	266	..	24	5809	264.5	270	255	..	30	5872	269.9	273	267	..			
400	29	7593	259.6	266	255	..	24	7503	253.6	263	246	..	29	7608	259.6	266	257	..			
300	26	9720	244.6	251	241	..	23	9591	241.4	250	236	..	25	9732	243.9	248	240	..			
250	25	11001	235.7	241	230	..	23	10860	233.5	240	228	..	21	11012	234.0	239	229	..			
200	22	12513	224.2	233	217	..	21	12358	224.3	231	219	..	18	12521	223.6	229	221	..			
175	21	13378	217.6	228	209	..	19	13216	218.6	225	214	..	17	13377	216.2	222	207	..			
150	17	14352	211.6	225	201	..	16	14185	212.4	217	205	..	14	14440	210.6	220	205	..			
125	14	15446	203.1	215	197	..	12	15290	205.9	211	200	..	10	15468	202.4	217	196	..			
100	7	16775	199.4	215	190	..	11	16639	203.0	210	200	..	7	16785	198.6	202	194	..			
80							6	18009	203.7	210	198	..	..	..	..	..	..	..

	CALCUTTA (1008 mb.)							GAUHATI (1004 mb.)							JODHPUR (985 mb.)						
Surface	31	006	298.0	301	293	297.3	31	049	297.4	300	293	296.1	30	218	295.4	301	290	289.2			
1000	31	081	..	..	..	..	31	085	..	..	..	..	30	089	..	..	..	..
900	31	1000	293.9	297	290	289.5	31	1006	293.6	297	291	289.8	30	1008	295.5	299	289	282.9			
850	31	1492	291.3	294	286	286.8	31	1497	291.1	293	286	286.4	30	1503	292.1	297	284	279.6			
800	31	2010	288.3	291	282	283.9	31	2014	288.4	293	283	283.2	30	2021	287.7	292	280	276.7			
700	31	3133	282.7	286	277	277.6	31	3134	282.5	288	278	275.7	30	3138	280.8	288	275	267.4			
600	31	4398	276.3	280	272	269.6	31	4400	276.2	281	269	268.4	30	4393	274.1	280	268	252.2			
500	31	5858	268.8	273	263	261.3	31	5860	269.1	275	265	..	29	5845	267.4	272	262	..			
400	31	7586	258.6	265	252	..	31	7587	258.9	267	254	..	29	7564	257.4	264	254	..			
300	29	9714	244.6	252	241	..	21	9728	246.5	251	239	..	26	9684	243.2	250	232	..			
250	28	10998	235.4	239	228	..	19	11035	237.9	245	233	..	25	10959	234.0	243	224	..			
200	24	12504	224.5	231	218	..	17	12548	226.5	230	223	..	24	12470	223.6	230	211	..			
175	17	13392	218.6	223	213	..	14	13433	220.6	225	215	..	23	13326	216.7	223	204	..			
150	13	14371	211.8	219	205	..	10	14404	212.1	215	209	..	18	14289	209.7	216	191	..			
125	10	15492	206.1	212	199	..	7	15502	206.4	211	202	..	13	15432	204.8	209	199	..			
100	8	16836	199.1	203	193	..	5	16830	197.6	202	192	..	11	16786	201.9	218	196	..			
80	..	..	..	..	..	..	..	..	..	..	..	..	9	18134	205.1	223	198	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 00 Hours G. M. T.

October 1958 (Asvina 9—Kartika 9, 1880 Saka)

Standard Pressure Surface mbs.	MADRAS Surf. Pr. (1006 mb.)							NAGPUR (974 mb.)							NEW DELHI (986 mb.)						
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A						
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			
Surface	31	015	299.4	301	296	297.3	30	311	295.3	299	290	291.6	31	210	293.8	297	288	290.8			
1000	31	064	..	..	..	..	30	079	..	..	..	..	30	083	..	..	..	..
900	31	988	294.0	297	291	290.8	30	999	294.6	297	292	288.0	30	1001	295.0	299	291	283.4			
850	31	1482	291.3	294	289	287.5	30	1492	291.7	294	289	284.6	30	1496	292.1	295	289	279.4			
800	31	2001	288.3	292	285	284.8	30	2015	288.5	292	286	281.3	30	2014	288.4	291	280	275.9			
700	31	3123	282.9	292	279	278.5	30	3133	282.6	285	277	272.4	30	3134	281.8	285	274	266.7			
600	31	4390	275.7	282	270	270.6	30	4402	276.5	282	273	264.8	30	4395	275.2	279	269	255.2			
500	30	5845	267.5	272	263	..	30	5861	268.2	273	264	..	30	5848	267.6	272	261	..			
400	30	7561	256.7	263	251	..	30	7583	257.4	262	253	..	30	7568	257.7	263	251	..			
300	29	9662	241.6	247	237	..	28	9699	242.4	252	234	..	30	9688	244.3	250	240	..			
250	26	10922	231.9	239	226	..	24	10978	233.2	246	219	..	30	10973	235.7	241	232	..			
200	18	12392	218.7	225	210	..	20	12468	221.1	237	205	..	27	12478	224.0	231	220	..			
175	19	13268	214.4	220	205	..	11	13290	212.0	231	204	..	26	13340	217.2	226	207	..			
150	15	14242	208.9	215	196	..	10	14250	206.5	225	198	..	25	14302	209.9	217	206	..			
125	10	15315	203.2	203	195	..	6	15457	202.6	218	197	..	23	15402	203.8	209	199	..			
100	..	..	..	..	..	..	6	16666	199.5	212	196	..	19	16726	199.8	206	195	..
80	..	..	..	..	..	..	..	..	..	..	..	..	11	18079	202.1	213	192	..
PORT BLAIR (1000 mb.)																					
Surface	31	079	297.7	300	296	296.9	31	064	298.5	300	297	295.8	31	008	298.1	302	294	294.9			
1000	31	083	..	..	..	..	31	076	..	..	..	..	31	078	..	..	..	..
900	31	1006	293.7	296	292	291.7	31	997	293.6	297	291	289.0	31	1002	295.5	299	292	285.3			
850	31	1500	291.2	293	289	288.8	31	1489	290.8	294	289	285.9	31	1496	291.9	295	288	281.5			
800	31	2019	288.8	292	287	286.2	31	2010	288.2	291	285	282.7	31	2014	288.4	293	283	278.9			
700	31	3144	283.1	287	280	279.8	31	3128	282.3	286	279	275.5	31	3134	282.1	286	277	269.9			
600	31	4411	275.4	278	269	272.7	31	4389	275.4	279	271	269.8	31	4397	275.8	281	270	256.6			
500	31	5862	267.0	270	260	..	31	5848	267.8	273	263	..	31	5853	268.7	274	263	252.2			
400	30	7577	256.8	261	253	..	31	7559	257.1	261	253	..	31	7578	258.3	264	250	..			
300	28	9679	241.8	248	234	..	28	9658	241.0	249	234	..	30	9691	242.5	249	235	..			
250	23	10957	232.0	240	223	..	26	10951	231.3	240	225	..	26	10975	233.5	243	224	..			
200	22	12431	219.5	230	209	..	23	12392	219.1	226	212	..	25	12473	222.4	232	212	..			
175	16	13280	212.6	218	206	..	22	13234	213.0	222	204	..	23	13349	216.2	225	202	..			
150	13	14232	206.5	215	202	..	18	14194	206.7	215	197	..	24	14274	209.5	219	199	..			
125	11	15322	200.3	208	192	..	15	15311	201.7	208	191	..	20	15367	203.5	212	195	..			
100	6	16559	195.7	201	188	..	3	16655	199.2	209	193	..	15	16745	200.1	206	192	..			
80	..	..	..	..	..	..	10	18004	200.2	207	197	..	9	18071	204.2	211	197	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 00 Hours G. M. T.

October 1958 (Asvina 9—Kartika 9, 1880 Saka)

Standard Pressure Surface mbs.	No. of obs.	Ht. gpm.	VISAKHAPATNAM Surf. Pr. 1003			
			Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	30	048	299.2	301	298	296.4
1000	30	073	..	..	..	..
900	30	099	294.1	296	291	290.5
850	30	1493	291.8	294	289	287.6
800	30	2012	289.0	291	287	285.2
750	30	3135	283.1	286	280	278.4
600	29	4401	275.8	279	272	270.6
500	28	5855	267.5	272	262	..
400	24	7581	258.0	264	254	..
300	13	9699	243.2	246	239	..
250	10	10973	234.6	239	228	..
200	8	12469	220.6	227	209	..
175	6	13345	216.2	221	206	..
150	6	14314	208.3	215	197	..
125	..	..	..	..	..	..
100	..	..	..	..	..	..
80	..	..	..	..	..	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 12 Hours G. M. T.

October 1958 (Aevina 9—Kartika 9, 1880 Saka)

ALLAHABAD Surf. Pr. (997 mb.)							AMRITSAR (983 mb.)							BOMBAY (1006 mb.)						
Standard Pressure Surface mbs.	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A					
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point		
Surface	31	98	301·7	306	298	294·1	24	230	301·5	307	297	289·6	31	13	303·1	306	301	296·1		
1000	29	68	..	..	..	..	24	80	..	..	..	..	30	67	..	..	..	..
900	29	998	296·7	304	292	285·7	24	1010	297·4	307	292	281·2	30	1001	297·8	301	293	288·6		
850	29	1494	292·9	297	289	282·6	24	1507	293·8	303	289	276·3	30	1500	294·6	299	291	285·3		
800	29	1914	289·4	293	284	278·0	24	2027	290·6	300	287	269·9	30	2023	291·2	296	289	281·9		
700	29	3139	283·1	287	277	269·0	24	3153	283·6	297	279	259·3	30	3153	284·7	289	282	272·9		
600	29	4407	277·1	283	273	259·3	24	4417	274·8	290	267	243·7	30	4430	279·1	283	276	261·3		
500	28	5867	269·7	277	265	..	24	5825	266·0	279	259	..	29	5903	271·5	275	268	249·8		
400	28	7599	259·6	265	254	..	24	7571	255·8	266	250	..	29	7649	261·1	267	253	..		
300	27	9728	244·7	253	237	..	23	9671	242·6	254	234	..	24	9799	246·7	256	240	..		
250	24	11015	235·3	244	229	..	22	10946	234·9	246	224	..	21	11102	237·7	249	233	..		
200	23	12522	224·3	233	215	..	20	12456	225·4	235	213	..	19	12620	226·1	239	221	..		
175	19	13418	218·7	227	208	..	19	13339	220·2	229	205	..	13	13469	218·6	223	214	..		
150	18	14385	210·9	220	200	..	17	14282	213·7	222	201	..	12	14448	210·8	216	207	..		
125	14	15493	202·4	210	191	..	14	15399	208·0	216	199	..	12	15559	204·0	209	199	..		
100	9	16802	197·6	204	189	..	12	16755	205·1	219	199	..	9	16884	198·2	203	195	..		
80	5	18272	200·4	205	195	..	7	18187	208·0	227	200	..	5	18177	202·2	212	196	..		
CALCUTTA (1007 mb.)							GAUHATI (1002 mb.)							JODHPUR (984 mb.)						
Surface	31	6	301·2	304	297	297·6	31	49	301·1	305	297	298·5	30	218	305·4	308	302	290·8		
1000	31	67	..	..	..	..	31	63	..	..	..	..	30	68	..	..	..	..
900	31	993	295·7	299	293	290·6	31	990	295·5	300	291	291·9	30	1009	299·7	308	296	285·0		
850	31	1487	292·8	295	290	287·1	31	1484	292·4	295	288	288·3	30	1510	295·3	299	291	282·1		
800	31	2007	289·7	293	286	283·9	31	2004	289·5	293	286	284·7	30	2033	290·9	294	286	279·7		
700	31	3133	283·9	288	280	277·7	31	3129	283·6	286	279	277·1	30	3158	282·8	288	278	269·4		
600	31	4406	277·7	283	273	270·0	31	4397	276·6	280	271	268·0	30	4422	276·2	283	271	259·3		
500	31	5873	269·7	273	266	261·1	31	5858	268·7	273	263	258·9	30	5882	269·3	273	265	..		
400	31	7606	259·5	263	254	..	31	7581	259·0	267	251	..	29	7615	259·6	266	255	..		
300	25	9734	245·0	250	239	..	23	9705	244·5	249	238	..	26	9757	245·5	253	240	..		
250	24	11016	235·6	241	227	..	22	10985	234·9	241	227	..	23	11048	236·0	243	229	..		
200	20	12531	22·40	229	213	..	20	12475	222·5	228	213	..	22	12555	224·9	233	213	..		
175	18	13382	217·2	222	213	..	13	13329	215·6	223	209	..	20	13424	217·9	226	208	..		
150	16	14355	209·8	215	202	..	8	14286	209·5	217	205	..	17	14407	211·9	217	205	..		
125	12	15463	202·7	209	196	..	6	15412	201·5	207	197	..	13	15547	205·0	211	196	..		
100	8	16838	196·9	206	189	..	7	16668	196·3	200	194	..	8	16833	198·9	201	195	..		
80													7	18200	202·9	207	197	..		

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 12 Hours G. M. T.

October 1958 (Asvina 9—Kartika 9, 1880 Saka)

Standard Pressure Surface mbs.	MADRAS Surf. Pr. (1004 mb.)							NAGPUR (972 mb.)							NEW DELHI (984 mb.)						
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A						
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			
Surface	31	15	301.4	304	297	297.7	30	311	301.4	305	298	292.5	31	210	300.8	303	297	291.9			
1000	31	55	...	...	...	...	30	59	...	...	...	...	31	72	...	...	...	...
900	31	984	295.5	298	292	291.6	30	992	297.0	300	294	287.7	31	1002	297.1	300	293	286.1			
850	31	1480	292.6	295	290	288.4	30	1489	292.8	297	288	285.0	31	1500	293.7	297	290	282.5			
800	31	2001	289.5	291	287	285.0	30	2010	289.1	295	283	283.1	31	2015	290.4	294	286	277.6			
700	31	3129	283.7	286	281	278.5	30	3134	283.2	288	279	273.9	31	3147	283.5	287	277	269.8			
600	31	4399	276.9	281	274	270.5	30	4404	277.1	280	273	265.1	31	4418	276.4	281	268	259.8			
500	30	5860	268.7	273	264	..	28	5866	268.7	273	265	..	31	5878	269.4	275	263	..			
400	30	7585	258.3	263	251	..	28	7590	257.9	263	253	..	31	7610	259.2	263	254	..			
300	28	9701	243.1	251	235	..	23	9718	242.9	249	230	..	30	9737	245.7	250	241	..			
250	27	10973	232.9	241	226	..	22	10999	233.5	240	223	..	30	11028	237.2	243	232	..			
200	25	12458	220.9	231	212	..	20	12491	222.2	236	213	..	30	12546	225.8	233	219	..			
175	18	13301	214.4	221	206	..	17	13361	214.8	223	211	..	29	13413	219.3	226	214	..			
150	17	14270	208.4	216	200	..	13	14336	208.8	218	204	..	29	14395	212.6	219	209	..			
125	9	15276	199.1	211	194	..	8	15434	201.7	206	196	..	25	15490	204.7	213	198	..			
100							6	16755	198.3	205	195	..	17	16843	201.1	206	193	..			
80													9	18170	202.9	209	195	..			
	PORT BLAIR (999 mb.)							TRIVANDRUM (1000 mb.)							VERAVAL (1007 mb.)						
Surface	31	79	299.5	301	297	297.5	31	64	301.4	303	299	296.5	31	8	302.3	304	299	297.1			
1000	31	72	..	..	..	..	31	67	..	..	..	..	31	72	..	..	..	..
900	31	997	293.9	297	290	292.5	30	994	294.5	298	292	289.8	31	1000	295.9	300	291	287.2			
850	31	1492	291.2	296	286	289.4	30	1488	291.3	294	288	287.2	31	1495	292.3	295	287	283.9			
800	31	2010	288.7	294	284	286.8	30	2006	288.4	291	285	285.0	31	2014	288.8	293	283	280.2			
700	31	3135	283.0	290	276	280.0	30	3129	283.2	287	281	277.6	31	3134	281.8	288	276	269.4			
600	31	4403	276.1	282	270	274.1	30	4396	276.1	281	271	270.5	31	4398	276.4	284	273	256.9			
500	31	5858	268.3	275	261	..	30	5852	268.2	273	263	..	31	5858	269.5	275	263	254.3			
400	31	7580	257.5	266	250	..	30	7571	257.3	264	249	..	31	7586	258.2	265	255	..			
300	28	9705	243.6	252	235	..	28	9683	241.2	250	230	..	29	9692	241.9	249	237	..			
250	25	10984	233.7	240	225	..	27	10946	231.7	240	220	..	29	10960	231.8	240	225	..			
200	21	12475	222.1	229	210	..	22	12406	218.9	227	205	..	29	12433	219.9	227	210	..			
175	18	13297	213.9	221	207	..	22	13249	212.7	221	201	..	26	13294	212.7	220	209	..			
150	17	14259	207.6	216	200	..	22	14193	205.3	212	195	..	23	14229	206.2	216	203	..			
125	11	15373	203.0	210	196	..	15	15277	200.1	205	191	..	17	15339	199.8	210	191	..			
100	6	16718	199.2	206	189	..	12	16574	200.0	204	188	..	15	16628	197.9	206	191	..			
80	.	.	.	.	.	.	5	17982	201.6	209	195	..	10	17941	202.2	210	194	..

RADIOSONDE DATA

TABLE VI--MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 12 Hours G. M. T.

October 1958 (Asvina 9—Kartika 9, 1880 Saka)

Standard Pressure Surface mbs.	No. of obs.	Ht. gpm.	VISAKHAPATNAM Surf. Pr. (1001 mb.)			
			Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	31	48	301.7	304	299	297.5
1000	31	61	..	..	..	..
900	31	989	294.7	298	290	291.1
850	31	1485	291.9	295	287	287.9
800	31	2004	288.6	293	275	285.1
700	31	3128	283.0	286	277	278.9
600	30	4394	276.6	279	271	271.1
500	30	5852	267.9	270	262	..
400	27	7571	257.3	262	251	..
300	16	9685	243.4	250	235	..
250	13	10979	232.8	239	226	..
200	12	12471	222.5	230	214	..
175	10	13332	217.3	223	209	..
150	9	14316	212.2	219	205	..
125	6	15399	204.2	215	196	..
100	5	16777	200.4	210	196	..
80						

NOTE.—Number of observations refer to those of dynamic height.

Means are not worked out for temperature and dew point for 1000 mb. surface and for dew point for standard pressure surfaces with temperature less than 273°A.

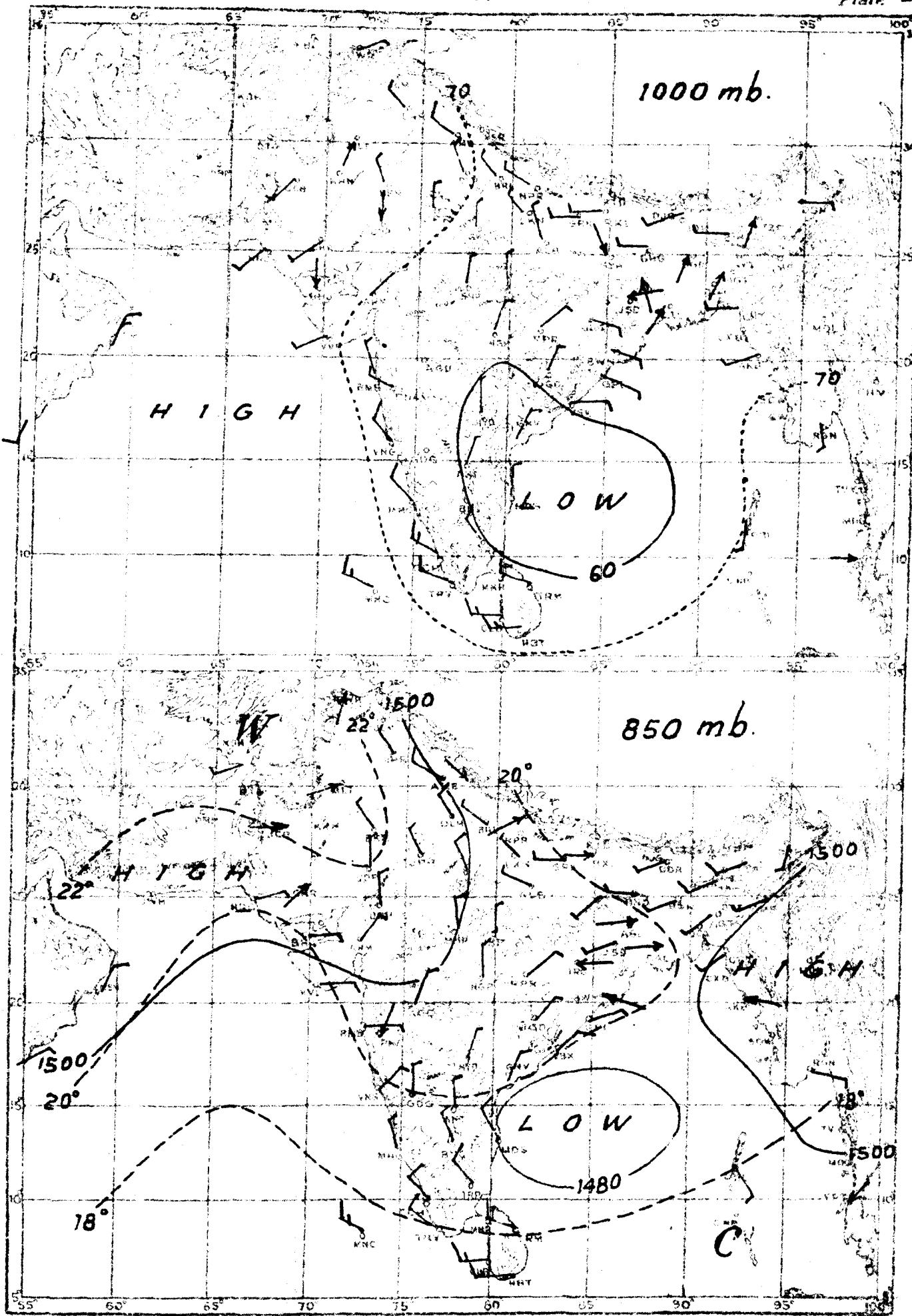
Means are not worked out for less than five observations at standard pressure surfaces.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D.

OCTOBER 1958

Plate I



RESULTANT WIND

— 5 Knots,

— 10 Knots,

— 50 Knots.

----- Isotherms in degrees centigrade

----- Contours in geopotential metres.

G.P.R.-P. DOONA, 1958

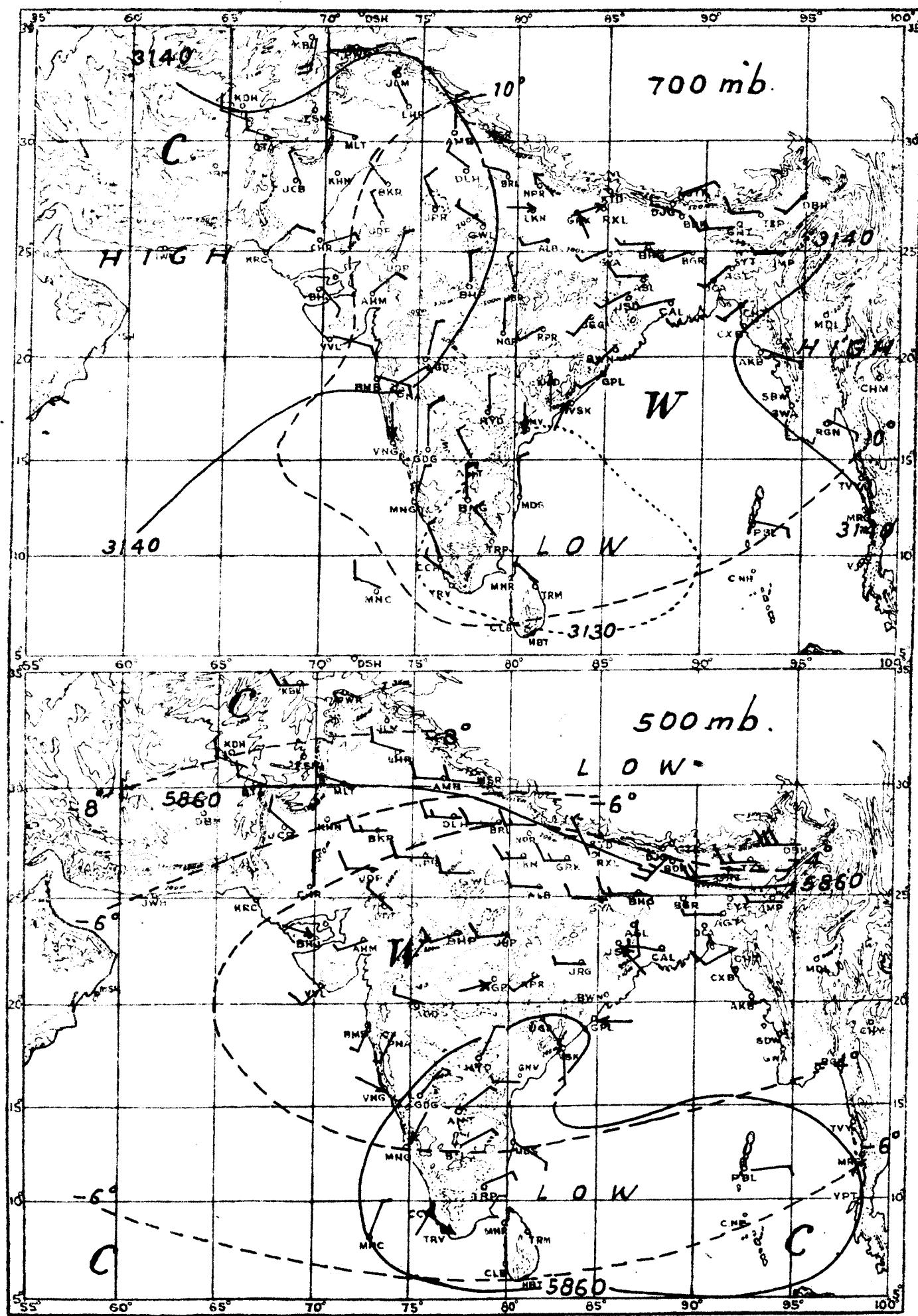
D.G.C./2/39 : 11 : 63

MONTHLY MEAN CONSTANT PRESSURE CHARTS

OCTOBER 1958

I Met.D.

Plate II



RESULTANT WIND — 5 Knots, — 10 Knots, — 50 Knots.

----- Isotherms in degrees centigrade -----

Contours in geopotential metres.

G.P.O. P. DOONA, 1963

DDG/C/2140:II:63



Registered No. B-3097

INDIA WEATHER REVIEW 1958

Monthly Weather Report

November

Published by authority of the Government of India

2 MAR 13
1965

Chief features

(1) Development of two cyclonic storms in the Bay of Bengal and one cyclonic storm in the Arabian Sea and

(2) Abundant rainfall in the south Peninsula during the second half of the month.

The seasonal low over the Bay of Bengal remained well marked during the beginning of the month and in association with it, the northeast monsoon was quite active in the south Peninsula. Nellore recorded 12 cms. of rain on 4th as well as on 5th. The seasonal low got further accentuated and a depression formed in the west central Bay on 6th morning. Moving eastnortheastwards, it became a cyclonic storm centred about 450 kms to the west of Sandoway (Burma) on the 8th morning. It moved slowly eastwards towards the Burma coast, steadily weakened and finally filled up over the Sea itself, by 10th. In association with this storm, there were strong winds along the east coast of India but not much rainfall. Coastal Burma however received good rainfall between 7th and 9th.

Another depression formed in the southeast Bay and the adjoining areas of the Andaman Sea on 18th. Moving westnorthwestwards, it concentrated into a cyclonic storm with centre about 400 kms to the southeast of Madras on 20th Morning. It weakened and crossed coast between Madras and Nellore as a deep depression on 21st afternoon and lay as a depression over south Mysore on 22nd morning. It emerged into the east Arabian Sea across the Kanara coast the same night, moved westnorthwestwards for some time and again intensified into a cyclonic storm far out into the Arabian Sea with centre neat Lat. 19° N., Long. 64° E. on 27th morning. The storm recurred northeastwards, weakened and filled up over the northeast Arabian Sea by 30th. During its comparatively long history, the storm was responsible for vigorous monsoon conditions in the South peninsula from 20th to 24th and for a good amount of rainfall in the rest of the Peninsula and in the central parts of the country during the second half of the month. Nagapattinam recorded 20 cms of rain on 20th and Madras 16 cms on 21st. The heavy rains in the city of Madras are reported to have caused floods in the low lying areas and rendered about 5000 families homeless. The rainfall also extended to Rajasthan towards the end of the month.

The western disturbances during the month were feeble. Only two of them which moved across the northern parts of the country, were somewhat active. Local rain or snow was caused in Jammu and Kashmir on 12th by the first western disturbance and on 18th by the second disturbance.

Night temperatures were appreciably to markedly above normal in Orissa, Madhya Pradesh, Telangana and the Bombay State during the last week of the month.

Total rainfall during the month was in large excess in the Bay Islands, Orissa, Rajasthan, Gujarat and Vidarbha, in moderate excess in Saurashtra and Kutch, coastal Andhra Pradesh and north Mysore, in slight excess in coastal Mysore and normal in west Madhya Pradesh, Maharashtra, the Madras State and south Mysore. It was in slight defect in Jammu and Kashmir, Telangana and Kerala, in moderate defect in Rayalaseema and the Arabian Sea Islands and in large defect in Assam, Gangetic West Bengal, Chota Nagpur, west Uttar Pradesh, the Punjab (I), east Madhya Pradesh and the Konkan. There was no rain in sub-Himalayan West Bengal, Bihar and east Uttar Pradesh.

"Copyright © 1959 by Manager of Publications, Government of India, Delhi-8."

The mean maximum temperature was above normal in Assam, Chota Nagpur, Bihar, the Konkan and the Arabian Sea Islands and normal over the rest of the country. The mean minimum temperature was normal in the Bay Islands, Assam, Jammu and Kashmir, east Rajasthan, coastal Mysore, Kerala and the Arabian Sea Islands and above normal over the rest of country.

The mean relative humidity was above normal in the Punjab(I), Rajasthan, Vidarbha, coastal Andhra Pradesh, Telangana and coastal Mysore, below normal in Assam and normal over the rest of the country.

The mean cloud amount was above normal in Orissa, Jammu and Kashmir, Rajasthan, Madhya Pradesh, Maharashtra, Vidarbha, coastal Andhra Pradesh, coastal and north Mysore and Kerala below normal in Assam, sub-Himalayan West Bengal, Bihar and east Uttar Pradesh and normal over the rest of the country.

Normal data for Himachal Pradesh are absent.

Table I contains the divisional and sub-divisional means of rainfall, temperatures, humidity and cloud amount for the 14 chief political divisions and the 30 sub-divisions. The stations whose observations are used for preparing these means are given in the subsequent tables.

The highest maximum temperature given for any station in the accompanying tables is that recorded within the 24 hours ending at 0830 hrs. IST of the date noted in the succeeding column; similarly the heaviest fall in 24 hours for any station denotes the amount recorded during the 24 hours ending at 0830 hrs. IST of the date given in the succeeding column.

POONA 5.
The 18th August, 1960. }

C. RAMASWAMY,
for Director General of Observatories.

Errata to I.W.R. November, 1958 (Kartika 10 - Agrahayana 9, 1880 Saka).

Page No.	Station	Hour	Column	For	Read
<u>Text portion</u>					
561	4th para, 7th line 5th word			neat	near
<u>Table - I : Division</u>					
563	3. Orissa	3	44	192	
563	5. Uttar Pradesh	4	+0.4	+0.3	
<u>Table - II</u>					
565	(Foot note)			(j) Mean of 11 days	(j) Mean of 21 days
566	Dehra Dun	5	(Blank)	1	
566	Jammu	17,18	(Blanks)	....
566	Phalodi	5	7,810	7,8,10	
566	Nagaur	1	Bagpur	Nagaur	
567	Guna	3	-0.4	-0.7	
567	Sidhi	1	Sidh	Sidhi	
567	Dohad	19	+2.8	..	
567	Rajkot (Aerodrome)	19	+5.8	..	
568	Parbhani	16	-3.2	+3.2	
568	Poona	16	-2.4	+2.4	
568	Poona	17	5.5	5.2	
569	Salem	28	3	0	
569	Assam	21	(Blank)	0	
569	Assam	22	2	0	
569	Mysore	17	99	9.9	
569	Kalimpong	16	0.4	+0.4	
569	(Foot note)		(a) mean of 30 days	(delete)	
569	(Foot note)		* Data given as addenda in December 1958 issue	(delete)	
570	Pachmarhi	23	4	3	
570	Lhasa	6	4.4	-4.4	
<u>Table III</u>					
572	Car Nicobar	1730	27	5	15
572	Kondul	1730	27	12	13
572	Dibrugarh (Lohanbari Aerodrome)	0230	9	15.5	15.1
572	North Lakhimpur	0830	18	35	35
572	Jorhat	0530	13	4.8	4.3
572	Gauhati (Bhorjor Aerodrome)	-	1	(Not given)	Gauhati (Bhorjor Aerodrome)
572	Gauhati (Bhorjor Aerodrome)	0230	3	,,	54
573	Tura	0830	26	(Blank)	0
573	Agartala	0230	1	Agartala	Agartala
573	Agartala	0530	7	27.9	17.9
573	Agartala	1130	10	20.4	20.5
573	Agartala	1730	7	4.5	24.5
573	Kailashwar (C.W.O.)	1730	25	9	0
573	Silchar	1730	15	0.0	0

contd. 2

Page No.	Station	Hour	Column	For	Read
573	Silchar (Kumbhigram Aerodrome)	0530	1	Silchar Kumbhigram Aerodrome)	Silchar (Kumbhigram Aerodrome)
573	Jalpaiguri	0830	6	+0.1	+1.0
573	(Foot Note)			(a) Mean of 30 days	(delete)
573	(Foot Note)			(g) Mean of 24 days	(delete)
573	(Foot Note)			(a) Mean of 17 days	(delete)
574	Saugor Island	1730	7	22.6	25.6
575	Keonjhar	0830	4	1013.0	1016.0
575	Keonjhar	1730	4	1009.5	1012.5
575	Patna (Aerodrome)	1730	27	26	27
575	(Foot Note)			* observation or 22 days	* Observation for 22 days
579	Guna	0830	3	478	,
582	Mandvi	0830	4	1012.0	1014.9
582	Mandvi	1730	4	1014.9	1012.0
582	Rajkot (Aerodrome)	0830	4	(Hot clear)	1014.6
582	Surondranagar	0830	2	0330	0830
582	Surondranagar	1730	2	1830	1730
582	Lahuva	1730	13	1.2	1.2 (b)
582	Alibag	0830	7	21.8	25.8
582	(Foot Note)			(c) Mean of 26 days	(e) Mean of 26 days
583	Aurangabad (Chikalthana Aerodrome)	1730	11	48	46
583	Parbhani	0830	4	1014.9	1015.1
583	Parbhani	0830	5	967.1	967.3
583	Parbhani	1730	4	1010.5	1010.7
583	Parbhani	1730	5	963.6	963.8
583	Poona	1730	27	13	18
583	Poona (Lohagaon Aerodrome)	0830	23	1	0
583	Poona (Lohagaon Aerodrome)	1130	23	0	1
583	Poona (Lohagaon Aerodrome)	2330	23	1	0
583	Barumati	0830	23	1	3
583	Barumati	1730	8, 23, 1	27.8, 1	20.8, 3
583	Jeur	1730	23	0	1
583	Sholapur	0530	23	1	0
584	Nasulipatam	1130	4	1102.4	1012.4
585	Khammameth	0830	5	1000.0	1000.8
585	Khammameth	0830	9	20.0	20.3
585	Kurnool	0830	12	1	+6
585	Kurnool	1730	4	1008.	1008.9
585	Pamban	0830	12	+0	0
586	Mangalore	1130	17	9	0
587	Alleppey	0830	18	29	27
587	Aijal	0830	3	,	..
587	Aijal	1730	3	,	..
587	Kelimpong	1730	17	(Blank)	0
588	Katmandu (Hydromet)	1130	10	11.8	11.3
588	Pachmarhi	1730	5	855.7	895.7
588	Pachmarhi	1730	8	16.3	16.6
588	Mahalaleswar	1730	8	16.6	16.3

contd. 3

Page No.	Station	Hour	Column	For	Read
588	Ootacamund	0830	24	0	1
588	Colombo	0830	27	0	6
588	Trincomalee	1730	24	0	4
588	Batticaloa	0830	24	0	4
588	Hambantota	0830	15	12.8(e)	12.8(c)
588	Tilaiya	1730	25	1	10
588	(Foot note)			(e) Mean of 28 days	(c) Mean of 28 days.

Page No.	Station	Time in I.S.T.	Alt. in km.	Entry under column	Existing entry	Correct entry
592	New Delhi			Date of opening	20th Oct. 1936	28th Oct. 1936
592	Santa Cruz			Height of anemometer (in metres)	14	27
594	Baghdogra	0530	0.15	D	73	073
596	Bhagalpur	0530	5.4	D	237	287
597	Cochin	2330	0.3	D	13.2	132
597	Darjeeling	0830	Against column of time in IST of flight		0530	0830
601	Jamshedpur	1730	2.1	v	5.4	5.8
602	Kinicoy	1730	9.0	D	089	098
602	Ranunbari	0530	1.5	D	8.3	083
603	New Delhi	2330	3.6	n	11	16
605	Trivandrum	1730*	0.6	V	1.0	7.0
607	Jodhpur	1130	10.5	v	48.8	43.8
608	New Delhi	0530*	16.2	D	26.8	268
608	Santa Cruz	1730	12.0	v	3.24	32.4
608	Tezpur	0530	12.0	v	6.10	61.0
<u>RADIOSONDE DATA</u>						
610	Calcutta	00 GMT	600 mb.	Temperature Moan	2.752	275.2
610	Jodhpur	00 GMT	Sur. pr. level	900		990
611	Madras	00 GMT	300 mb.	Temperature Maximum	241	248

SG. 6-10

TABLE I—DIVISIONAL AND SUB-DIVISIONAL MEANS—NOVEMBER, 1958 (KARTIKA 10—AGRAHAYANA 9, 1880 SAKA)

	Rainfall (millimetres)	Cloud						Rainfall (millimetres)	Cloud														
		Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity %	0830 hrs. I.S.T.	1730 hrs. I.S.T.		0830 hrs. I.S.T.	1730 hrs. I.S.T.	0830 hrs. I.S.T.	1730 hrs. I.S.T.	0830 hrs. I.S.T.	1730 hrs. I.S.T.	0830 hrs. I.S.T.	1730 hrs. I.S.T.	0830 hrs. I.S.T.	1730 hrs. I.S.T.					
1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9						
Division																							
1. Assam (Including Manipur, Tripura)	1·1	4	28·7	16·8	77	75	1·9	2·0	Division—Contd.						9. Madhya Pradesh	11·2	73	28·4	14·8	63	48	1·9	2·4
	—28·1	+1·7	+0·7	—8		—1·2			10. Bombay						—4·2	0	+1·9	+2	+0·4				
2. West Bengal	6·9	37	28·9	19·4	74	65	1·7	1·9	11. Andhra Pradesh						19·3	84	31·8	19·2	63	50	2·0	2·5	
	—11·7	+0·4	+2·2	+2		0			12. Madras State						—3·8	+0·4	+1·9	+3	+0·3				
3. Orissa	98·7	44	29·3	20·5	77	69	3·7	4·4	13. Mysore						116·3	127	29·8	21·3	77	66	4·2	4·7	
	+47·2	+0·2	+2·3	+5		+1·4			14. Kerala						+24·7	0	+1·6	+5	+0·7				
4. Bihar	0·1	1	28·9	16·2	70	63	1·3	1·5	Mean of India (Excluding Jammu & Kashmir and Himachal Pradesh)						214·0	90	30·0	23·3	82	72	5·2	5·3	
	—10·9	+1·4	+1·8	0		—0·2			—22·8						+22·8	+0·2	+1·1	0	+0·6				
5. Uttar Pradesh	0	0	28·4	13·3	67	52	0·6	0·7	—3·8						53·5	108	29·4	20·0	75	55	4·2	5·0	
	—5·5	+0·4	+1·3	+1		—0·2			+3·8						+3·8	+0·2	+1·5	+5	+0·9				
6. Punjab (India) (Including Himachal Pradesh & Delhi)*	1·1	44	28·7	11·9	68	46	0·7	0·9	—41·0						121·0	75	30·5	24·0	83	75	5·3	6·1	
	—1·4	+0·4	+1·5	+10		—0·1			+0·3						+41·0	+0·3	+0·5	+1	+0·9				
7. Jammu and Kashmir	5·5	85	17·3	2·9	64	45	2·8	3·2	Mean of India (Excluding Jammu & Kashmir and Himachal Pradesh)						39·3	103	29·6	17·3	69	55	2·3	2·6	
	—1·0	+0·4	+0·3	—1		+0·9			+1·1						+1·1	..	+0·3	+1·6	+3	..	+0·3	..	
8. Rajasthan	17·9	437	29·7	13·3	60	41	1·2	1·1	Sub-Division						20·3	103	29·6	17·3	69	55	2·3	2·6	
	+13·8	+0·4	+0·8	+10		+0·3			Sub-Division—Contd.						20·3	45	28·3	15·8	72	58	2·4	3·2	
Sub-Division																							
1. Bay Islands	470·9	176	29·5	23·6	79	85	5·0	4·6	16. Madhya Pradesh (East).						6·9	45	28·3	15·8	72	58	2·4	3·2	
	+203·7	+0·7	+0·5	+3		+0·4			—8·3						+0·7	+2·6	+3	+0·5					
2. Assam (Including Manipur, Tripura)	1·1	4	28·7	16·8	77	75	1·9	2·0	17. Gujarat						21·4	177	32·8	17·7	61	41	1·4	1·2	
	—28·1	+1·7	+0·7	—8		—1·2			+9·3						—0·1	+1·9	0	+0·1					
3. Sub-Himalayan West Bengal	0	0	27·8	17·5	77	61	0·7	1·1	18. Saurashtra and Kutch.						4·7	127	32·1	18·5	58	42	1·2	1·1	
	—11·8	+0·1	+1·3	+1		—0·3			+1·0						0	+1·5	+3	+0·1					
4. Gangetic West Bengal	9·5	45	29·3	19·9	73	66	2·1	2·1	19. Konkan						13·1	31	32·6	22·7	69	71	2·2	2·3	
	—11·7	+0·6	+2·5	+2		+0·1			—29·1						+1·1	+1·1	0	+0·2					
5. Orissa	98·7	192	29·3	20·5	77	69	3·7	4·4	20. Maharashtra						28·8	101	30·9	17·9	63	45	2·7	3·9	
	+47·2	+0·2	+2·3	+5		+1·4			+0·4						+0·7	+2·3	+2	+0·6					
6. Chota Nagpur	0·4	3	28·4	16·3	67	60	1·7	2·1	21. Vidarbha						28·7	159	30·1	18·1	66	51	2·8	3·7	
	—13·9	+1·2	+2·1	0		0			+10·7						+0·1	+3·0	+8	+0·9					
7. Bihar	0	0	29·5	16·2	73	66	0·9	0·9	22. Coastal Andhra Pradesh.						219·9	146	29·6	22·7	80	75	4·8	5·1	
	—9·3	+1·6	+1·4	+1		—0·3			+69·4						0	+1·2	+6	+0·8					
8. Uttar Pradesh (East)	0	0	29·0	13·8	66	54	0·6	0·5	23. Telangana						20·6	83	29·3	18·8	73	55	3·3	3·9	
	—6·3	+0·5	+1·2	—2		—0·2			—4·2						—0·1	+2·2	+6	+0·5					
9. Uttar Pradesh (West)	0·1	2	27·8	12·8	67	50	0·7	1·0	24. Rayalaseema						39·2	65	31·0	21·7	76	61	4·0	4·5	
	—4·7	0	+1·5	+4		—0·1			—20·8						0	+1·8	+3	+0·6					
10. Punjab (India) (Including Delhi)*	1·1	44	28·7	11·9	68	46	0·7	0·9	25. Madras State						214·0	90	30·0	23·3	82	72	5·2	5·3	
	—1·4	+0·4	+1·5	+10		—0·1			—22·8						+0·2	+1·1	0	+0·6					
11. Himachal Pradesh	0·5	..	25·3	7·7	95	55	3·1	2·0	26. Coastal Mysore						76·0	125	31·3	23·5	79	70	4·7	5·0	
	..	..	..	..	..	..	..	..	+15·1						—0·5	+0·9	+7	+0·9				
12. Jammu and Kashmir	5·5	85	17·3	2·9	64	45	2·8	3·2	27. Mysore (North)						30·6	131	30·1	19·8	68	48	4·1	5·0	
	—1·0	+0·4	+0·3	—1		+0·9			+7·3						+0·5	+1·7	+5	+1·6					
13. Rajasthan (West)	21·2	1927	30·3	13·7	59	44	1·3	1·0	28. Mysore (South)						61·3	93	28·1	18·9	79	56	4·2	4·9	
	+20·1		—0·5	+1·5	+12	+0·3			—4·8						+0·3	+1·5	+3	+0·1					
14. Rajasthan (East)	14·7	207	29·3	12·9	60	39	1·1	1·2	29. Kerala						121·0	75	30·5	24·0	83	75	5·3	6·1	
	+7·6		—0·3	+0·3	+8	+0·3			—41·0						+0·3	+0·5	+1	+0·9					
15. Madhya Pradesh (West)	14·3	92	28·5	14·1	56	41	1·5	1·9	30. Arabian Sea Islands						65·7</td								

564 TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—NOVEMBER 1958 (KARTIKA 10—AGRAHAYANA 9, 1880 SAKA)

Division and station	Air temperature in °C								Rainfall in millimetres								No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour		Weather phenomena—No. of days with								
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·3 mm. or more)	Snow or sleet	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
Bay Islands																													
Maya Bandar	27·8	...	29·4	18	23·9	...	22·0	30	52·2	175·5	...	47·0	2	7	...	10·7	7·2	...	7	0	0	0	0	0	0	0	0	0	
Long Island	29·7	...	30·8	17	24·0	...	22·2	30	50·0	119·8	...	33·8	2	10	...	2·0	1·3	...	12	0	0	0	0	0	0	0	0	0	
Port Blair	29·5	+0·7	31·6	16	23·6	+0·5	21·2	30	242·3	470·9	+203·7	77·7	5	12	-1·6	...	...	...	14	0	0	3	4	0	0	0	0	0
Car Nicobar	29·7	...	30·8	9	23·6	...	19·4	28	195·0	315·0	...	89·8	19	12	...	7·1	4·8	...	14	0	0	3	0	0	0	0	0	0	
Nancowry	30·0	...	32·2	29	24·1	...	22·1	34	110·2	281·0	...	46·2	18	16	...	2·6	1·6	...	19	0	0	0	0	0	0	0	0	0	
Kondul	28·7	...	30·3	8	24·1	...	22·5	5	145·3	311·9	...	95·5	18	11	...	8·0	5·7	...	17	0	0	0	0	0	0	0	0	0	
Assam (Including Manipur, Tripura).																													
Pasighat	27·6	...	30·6	1,2	17·0	...	13·1	23	0	2·5	...	2·5	7	1	...	7·9	13·0	...	1	0	0	0	0	0	0	0	0	0	
Digboi	27·7	...	31·5	2	16·1	...	12·8	23	0	0·2	...	0·2	7	0	...	...	...	...	0	0	0	0	0	0	0	0	0	0
Dibrugarh	28·4	+2·0	31·6	3	16·1	+0·5	12·8	21,22,23	0	0	-33·5	0	...	0	-2·5	2·0	1·1	+0·1	0	0	0	0	0	0	0	0	0	0	
Dibrugarh (Mohanbari Aerodrome)	27·7	...	30·3	3	(b) 15·0	...	10·7	21	0	0·5	...	0·4	7	0	...	4·0	1·9	...	1	0	0	0	0	0	0	0	0	0	
North Lakhimpur	28·0	...	30·6	1,3	13·3	...	10·6	23	0	8·6	...	8·6	7	1	...	4·9	4·2	...	1	0	0	0	0	0	0	0	0	0	
Sibsagar	28·1	+2·5	31·7	2,3	16·9	+1·5	13·4	2,21	0	1·3	-29·7	0·8	7	0	-2·3	2·9	1·7	-0·1	2	0	0	0	0	0	0	0	0	0	
Jorhat	28·0	...	30·6	2	15·9	...	12·7	21	0	0·3	...	0·3	30	0	...	...	...	...	1	0	0	0	13	0	0	0	0	0
Golaghat	28·6	...	31·7	1,3	16·4	...	13·3	20,21	0	0	...	0	...	0	...	...	...	0	0	0	0	0	0	0	0	0	0	
Gohpur	28·6	...	31·6	2,3	14·7	...	11·1	18,19	0	0	...	0	...	0	...	...	...	0	0	0	0	0	0	0	0	0	0	
Tezpur	29·4	+2·2	32·2	1	17·5	+1·1	15·1	19,21	0	2·2	-20·7	1·2	7	0	-1·8	4·7	5·7	+3·3	2	0	0	0	0	0	0	0	0	0	
Tezpur (P.B.O.)	27·9	...	30·7	2,3	16·5	...	13·8	19	0	4·2	...	2·6	7	1	...	3·9	2·2	...	2	0	0	0	0	0	0	0	0	0	
Majbat	...	...	...	...	...	...	...	...	0	39·2	...	39·2	30	1	...	4·4	2·3	...	1	0	0	0	0	0	0	0	0	0
Chaparmukh	30·2	...	33·3	3	19·5	...	16·1	30	0	10·7	...	10·2	7	1	...	...	...	...	2	0	0	0	0	0	0	0	0	0
Tangla	29·0	...	31·9	2	15·2	...	12·1	20,21	0	0	...	0	...	0	...	(b) 1·2	0·4	...	0	0	0	0	0	0	0	0	0	0	
Gauhati	28·4	+1·0	30·8	1	17·9	+1·6	15·7	19,20	0	0	-14·0	0	...	0	-1·2	4·2	2·0	+0·2	0	0	0	0	0	0	0	0	0	0	
Gauhati (Bhorjor Aerodrome)	27·9	...	31·1	2	16·3	...	13·5	25	0	1·2	...	1·0	30	0	...	5·3	2·7	...	1	0	0	0	0	0	0	0	0	0	
Rangia	29·1	...	31·7	3	17·6	...	15·2	17,23	0	10·0	...	10·0	30	1	...	5·4	3·6	...	1	0	0	0	0	0	0	0	0	0	
Goalpara	30·0	...	32·6	1	17·6	...	13·5	25	0	12·6	...	12·6	30	1	...	3·4	2·2	...	1	0	0	0	0	0	0	0	0	0	
Dhubri (Rupsi Aerodrome)	26·6	+0·3	29·4	4	19·4	+1·6	16·7	28	0	0	-10·2	0	...	0	-0·7	5·5	4·7	-1·7	0	0	0	0	0	0	0	0	0	0	
Tura	28·2	...	30·6	19	17·1	...	14·1	28	0	4·4	...	4·4	30	1	...	6·7	6·4	...	1	0	0	0	0	0	0	0	0	0	
Agartala	29·3	...	30·7	17	17·2	...	13·9	20	0	7·9	...	4·4	7	2	...	6·3	3·7	...	2	0	0	0	0	0	0	0	0	0	
Kailashar (C.W.O.)	29·6	...	30·8	3	16·1	...	12·4	25	0	0	...	0	...	0	...	3·1	1·7	...	0	0	0	0	0	0	0	0	0	0	
Siilchar (Kumbhigram Aerodrome)	29·1	-0·3	32·8	1	17·4	-0·1	15·4	20	0	2·8	-41·7	2·8	30	1	-1·1	0	0	-1·6	1	0	0	0	0	0	0	0	0	0	
Imphal	25·2	...	27·5	1	9·6	...	5·4	4,24	0	0	...	0	...	0	...	4·9	2·8	...	0	0	0	0	4	0	0	0	0	0	
Haflong	25·2	...	27·1	1	14·5	...	12·6	23	0	2·8	...	2·8	30	1	...	4·6	3·6	...	1	0	0	0	0	0	0	0	0	0	
Lumding	28·8	+2·6	31·3	1	15·1	-0·3	11·3	22	0	0	-29·2	0	...	0	-1·9	1·2	0·5	...	0	0	0	0	0	0	0	0	0	0	
Sub Himalayan—West Bengal																													
Cooch Behar (C.W.O.)	28·7	...	31·4	1	15·6	...	12·5	19	0	0	-11·4	0	...	0	-0·8	5·7	2·6	...	0	0	0	0	10	0	0	0	0	0	
Jalpaiguri	26·5	-1·3	29·9	1	16·5	+0·5	13·7	25	0	0	-12·5	0	...	0	-0·8	5·9	4·2	+2·6	0	0	0	0	0	0	0	0	0	0	
Bagdogra	28·9	...	31·4	1	14·3	...	10·9	25	0	0	...	0	...	0	...	4·2	3·8	...	0	0	0	0	0	0	0	0	0	0	
Malda	29·1	+1·2	31·7	5	18·4	+2·2	15·8	21	0	0	-11·4	0	...	0	-0·7	5·7	3·7	-0·2	0	0	0	0	0	0	0	0	0	0	
Gangetic West Bengal																													
Dum Dum	30·1	...	32·9	20	19·3	...	15·4	16	2·2	6·6	...	4·4	2	1	...	7·0	4·1	...	2	0	0	0	4	0	0	0	0	0	
Calcutta	30·2	+1·2	32·7	2	20·3	+2·7	16·3	29	16·9	23·7	+3·1	14·7	3	2	+0·9	5·4	3·3	+0·2	3	0	0	1	2	0	0	0	0	1	
Barrackpore	29·4	...	31·6	2,11	19·6	...	16·5	29	0	37·8	...	37·8	12	1	...	(h)	(i)	...	1	0	0	0	0	0	0	0	0	0	
Saugor Island	28·3	+0·4	30·7	1	22·1	+2·4	19·8	19	24·6	29·4	-3·1	16·2	13	2	+0·7	16·0	13·0	+4·1	7	0	0	0	0	0	0	0	0	0	
Sandheads	...	...	...	...	...	...	...	...	47·7	58·7	-11·2	31·6	13	4	+1·5	...	...	...	4	0	0							

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—NOVEMBER 1958 (KARTIKA 10—AGRAHAYANA 9, 1880 SAKA) 565

Division and station	Air temperature in °C								Rainfall in millimetres								No. of rainy days (2.5 mm. or more)			Wind speed, km. per hour			Weather phenomena—No. of days with									
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Departure from normal	Mean 24 hours	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squal				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29			
Orissa—contd.																																
Bhubaneswar	29.0	..	31.5	8	20.7	..	16.0	17	45.6	103.6	...	22.9	23	6	...	9.8	8.1	...	8	0	0	2	1	0	0	0	0	0	0			
Puri	29.5	+0.3	31.7	2,3	22.3	+1.6	18.4	16,17	50.6	177.1	+96.1	98.0	22	4	+1.6	16.4	12.3	+3.1	6	0	0	0	0	0	0	0	0	0				
Gopalpur	29.4	+0.5	31.8	13	21.2	+1.6	17.2	17	101.5	255.7	+155.9	88.0	22	7	+4.2	16.0	12.5	+2.5	9	0	0	2	0	0	0	0	0	0				
Koraput	25.8	..	28.3	12	16.1	..	10.6	17	13.2	27.2	..	17.3	27	3	...	...	...	...	5	0	0	0	0	0	0	0	0	0
Titilagarh	27.6	..	29.7	26	19.3	..	12.9	17	25.1	31.3	..	26.7	23	2	...	5.3	3.2	...	3	0	0	0	3	0	0	0	0	0				
Bolangir	29.0	..	31.1	26	18.7	..	13.2	18	4.2	5.6	..	4.2	24	1	..	7.9	4.4	..	2	0	0	0	0	0	0	0	0	0				
Angul	28.9	+0.1	30.7	26	19.7	+2.9	14.2	16	0	11.8	-16.4	6.6	22	2	+0.6	5.9	4.7	-0.1	4	0	0	0	3	0	0	0	0	0				
Keonjhar	27.0	..	29.2	26	17.6	..	13.9	29	4.3	18.1	..	10.7	1	2	...	6.3	3.9	...	5	0	0	0	1	0	0	0	0	0				
Sambalpur	29.3	+0.5	31.3	26	19.0	+2.7	12.4	17	1.0	8.5	-12.1	5.6	2	1	0	5.2	3.2	-0.2	3	0	0	0	0	0	0	0	0	0				
Jharsuguda	29.4	..	31.7	26	17.9	..	12.2	17	2.3	2.9	..	2.9	24	1	..	9.4	7.0	..	1	0	0	0	0	0	0	0	0	0				
Chota Nagpur																																
Jamshedpur	29.2	-0.2	31.3	1	18.3	+3.3	12.3	16	0	0	-9.4	0	...	0	-0.7	6.5	3.8	+1.2	0	0	0	0	0	0	0	0	0	0				
Jamsbedpur (P.B.O.)	29.5	..	32.1	26	17.9	..	12.1	16	0	0	0	0	...	0	...	2.3	1.3	...	0	0	0	0	0	0	0	0	0	0				
Chaibasa	29.0	+0.7	30.6	1,4,26	18.8	+3.4	13.4	29	0	1.8	-16.0	1.8	24	0	-1.0	2.7	1.3	-0.6	1	0	0	0	0	0	0	0	0	0				
Ranchi	27.0	+1.7	28.3	25	15.2	+1.2	10.8	18	0	0	-15.5	0	...	0	-1.0	1.9	1.7	-2.6	0	0	0	0	0	0	0	0	0	0				
Ranchi (C.W.O.)	26.1	..	28.3	25	15.0	..	10.6	16,28	0	0	0	0	...	0	...	11.4	7.7	...	0	0	0	0	0	0	0	0	0	0				
Daltonganj	29.3	+1.3	32.2	4	14.8	+2.4	9.9	16	0	0	-14.2	0	...	0	-0.3	3.6	1.7	-0.7	0	0	0	0	0	0	0	0	0	0				
Hazaribagh	27.6	+2.3	30.1	1	14.2	+0.2	9.5	16	0	0	-14.2	0	...	0	-0.9	7.8	5.4	-1.5	0	0	0	0	0	0	0	0	0	0				
Dhanbad	28.5	..	30.8	4	17.7	..	14.1	16	0	0	0	0	...	0	...	2.9	1.8	...	0	0	0	0	8	0	0	0	0	0				
Bihar																																
Purnea	29.8	+1.8	32.2	2	15.4	+0.6	12.0	19,23	0	0	-8.6	0	...	0	-0.5	2.8	1.2	-0.4	0	0	0	0	0	0	0	0	0	0				
Forbesganj	31.2	..	34.0	1,2	15.2	..	11.1	20	0	0	0	0	...	0	...	3.0	2.0	...	0	0	0	0	9	0	0	0	0	0				
Darbhanga	29.8	+1.5	32.3	1	17.1	+1.8	14.2	26	0	0	-6.9	0	...	0	-0.4	3.0	1.4	0	0	0	0	0	0	0	0	0	0					
Motihari (R)																																
Muzaffarpur		..	..	..	..	..	..	..	..	..	..	0	-7.4	0	...	0	-0.5	...	0	0	0	0	0	0	0	0	0	0
Chapra		..	..	..	..	..	..	..	..	..	0	-9.1	0	...	0	-0.5	...	0	0	0	0	0	0	0	0	0	0	0
Arrah		..	..	..	..	..	..	..	..	..	0	-9.4	0	...	0	-0.6	...	0	0	0	0	0	0	0	0	0	0	0
Patna	29.5	+1.7	31.9	4 days	17.7	+1.6	13.6	16	0	0	-8.6	0	...	0	-0.5	3.4	2.9	+0.5	0	0	0	0	1	0	0	0	0	0				
Patna (Aerodrome)	29.1	..	31.8	3	15.1	..	11.1	16	0	0	0	0	...	0	...	4.2	1.6	...	0	0	0	0	3	0	0	0	0	0				
Dehri	29.4	..	32.2	3	16.2	..	13.2	28	0	0	-11.7	0	...	0	-0.7	3.5	2.7	..	0	0	0	0	0	0	0	0	0	0				
Gaya	28.9	+1.5	31.5	4	15.0	+1.1	10.5	16	0	0	-12.5	0	...	0	-0.7	6.2	4.6	-0.1	0	0	0	0	0	0	0	0	0	0				
Jamui	29.5	..	31.7	4	16.5	..	12.3	16	0	0	0	0	...	0	...	4.6	2.2	...	0	0	0	0	0	0	0	0	0	0				
Dumka	28.3	+0.3	31.7	3	16.3	+1.0	13.8	27	0	0	-13.7	0	...	0	-0.8	..	..	0	0	0	0	0	0	0	0	0	0	0		
Bhagalpur	29.7	..	32.4	2	17.5	..	14.4	27	0	0	0	0	...	0	...	3.9	2.6	...	0	0	0	0	0	0	0	0	0	0				
Sabour	29.4	+1.5	32.2	3	15.8	+2.0	12.2	27	0	0	-9.7	0	...	0	-0.7	5.1	2.7	-1.3	0	0	0	0	0	0	0	0	0	0				
Uttar Pradesh (East)																																
Gonda	28.3	-0.4	31.7	2	12.3	-0.4	8.4	27	0	0	-5.1	0	...	0	-0.5	1.6	1.1	-1.6	0	0	0	0	0	0	0	0	0	0				
Nautanwa	24.7	..	27.3	1,2,3	14.9	..	11.4	23	0	0	0	0	...	0	...	2.3	1.5	...	0	0	0	0	0	0	0	0	0	0				
Gorakhpur	29.7	+1.9	31.4	4	15.1	+1.0	11.7	23,27	0	0	-4.8	0	...	0	-0.3	2.7	1.1	-0.2	0	0	0	0	0	0	0	0	0	0				
Azamgarh	29.0	..	32.8	3	14.8	..	11.4	25,27,28	0	0	0	0	...	0	...	...	...	0	0	0	0	0	0	0	0	0	0	0	
Ballia	29.5	..	32.2	2,3	14.9	..	11.1	28	0	0	0	0	...	0	...	2.4	1.0	...	0	0	0	0	0	0	0	0	0	0				
Varanasi (Banaras)	28.8	+0.5	32.2	3	15.2	+1.9	11.8	28	0	0	-9.4	0	...	0	-0.6	4.4	3.2	+0.6	0	0	0	0	0	0	0	0	0	0				
Varanasi (Banaras) (Babatpur Aerodrome)	28.5	..	31.5	3	14.1	..	10.8	16	0	0	0	0	...	0	...	6.4	3.6	...	0	0	0	0	0	0	0	0	0	0				
Allahabad (Bamrauli)	29.6	+1.0	33.1	2	14.5	+2.1	10.4	25	0	0	-7.9	0	...	0	-0.5	4.7	2.6	-0.1	0	0	0	0	0	0	0	0	0	0				
Banda	30.3	..	33.3	3,4	13.2	..	8.3	23,24	0	0	0	0	...	0	...	0.4	0.1	...	0	0	0	0	0	0	0	0	0	0				
Fatehpur	28.8	-0.6	32.2	3	13.6	+1.0	8.3	23,24	0	0	-2.3	0	...	0	-0.4	4.2	1.8	-0.6	0	0	0	0	0	0	0	0	0	0				
Kanpur	28.4	+0.2	30.8	1,2	13.5	+1.3	8.7	23	0	0	-8.9	0	...	0	-0.4	8.4	4.6	+0.6	0	0	0	0	0	0	0	0	0	0				
Lucknow	29.1	+0.3	32.3	1	13.4	+1.1	10.1	24	0	0	-5.6	0	...	0	-0.4	3.0	1.7	+0.3	0	0	0	0	0	0	0	0	0	0				
Lucknow (Amausi Aerodrome)	28.4	+0.3	31.7	1	12.2	+1.8	7.9	22	0	0	-5.6																					

(j) Mean of 11 days.

(R) Register not received

566 TABLE II.—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—NOVEMBER, 1958 (KARTIKA 10—AGRAHAYANA 9, 1880 SAKA)

Division and station	Air temperature in °C										Rainfall in millimetres						No. of rainy days (2.5 mm. or more)		Wind speed, km. per hour		Weather phenomena—No. of days with												
	Mean maximum	2	3	4	Date	Mean minimum	6	7	8	Lowest	Date	Total fall during 0830-1730 hours	10	11	12	13	Date	Total in the month	15	16	17	18	19	Precipitation (0.5 mm. or more)	20	21	22	23	24	25	26	27	Link squall
		1	2	3	Highest						Total fall in 24 hours						between 0830-1730 hours	Mean 24 hours	Departure from normal	Mean 24 hours	Departure from normal	Mean 24 hours	Departure from normal	Snow or Sleet	Hail	Thunder heard	Fog	Dust-storm	Gale	Squall			
Uttar Pradesh (West) — contd.																																	
Najibabad . . .	27.6	...	32.2	1	11.2	...	5.7	27	1.4	1.4	...	1.4	29	0	...	2.2	1.0	...	1	0	0	0	0	0	0	0	0	0	0	0			
Roorkee . . .	26.6	+0.2	31.1	1	11.5	+1.7	6.3	27	0	0	-5.8	0	...	0	-0.5	3.7	2.0	+0.4	0	0	0	0	0	0	0	0	0	0	0	0			
Dehra Dun . . .	25.0	+0.9	29.7		11.8	+1.2	7.8	26	0	0	-8.9	0	...	0	-0.7	3.2	3.3	+0.4	0	0	0	0	0	0	0	0	0	0	0	0			
Punjab (India), (including Delhi)																																	
New Delhi . . .	28.0	-0.8	31.2	3	12.8	+1.4	8.4	24	2.0	2.4	-0.1	2.4	29	0	-0.3	10.5	7.5	+0.4	1	0	0	0	0	0	0	0	0	0	0	0			
Hissar . . .	28.9	-0.2	33.0	2	9.9	0	5.6	24	2.8	3.2	+1.7	2.8	29	1	+0.8	3.0	2.8	-1.5	2	0	0	0	0	0	0	0	0	0	0	0			
Karnal . . .	27.2	...	31.7	2	14.3	...	7.6	30	0	0	...	0	...	0	...	...	...	...	0	0	0	0	0	0	0	0	0	0	0	
Patiala . . .	28.0	...	31.9	1	10.9	...	6.1	23	0	0	-0.3	0	...	0	0	8.1	7.1	...	0	0	0	0	0	0	0	0	0	0	0				
Ambala . . .	29.0	+1.2	33.4	1	11.2	+1.3	7.2	30	0	0	-4.8	0	...	0	-0.4	8.9	5.8	+2.9	0	0	0	0	0	0	0	0	0	0	0				
Ambala (Aerodrome) . . .	27.3	...	32.2	1	9.1	...	4.7	27	0	0	...	0	...	0	...	...	...	...	0	0	0	0	0	0	0	0	0	0	0	
Chandigarh . . .	27.8	...	33.4	1	11.6	...	7.2	26,29	0	0	...	0	...	0	...	...	...	...	0	0	0	0	0	0	0	0	0	0	0	0
Ludhiana . . .	28.9	+1.5	32.6	1	13.9	+3.3	10.8	27	0	0	-3.3	0	...	0	-0.4	4.5	2.4	+1.1	0	0	0	0	0	0	0	0	0	0	0				
Ferozepur . . .	25.0	...	29.4	4	10.1	...	4.3	29	0	0	...	0	...	0	...	3.4	1.5	...	0	0	0	0	0	0	0	0	0	0	0				
Amritsar . . .	26.3	...	30.6	1	8.6	...	3.3	29	0	0.3	...	0.3	12	0	...	6.3	4.3	...	1	0	0	0	1	0	0	0	0	0	0				
Pathankot . . .	26.5	...	31.8	1	11.5	...	7.4	29	0	0	...	0	...	0	...	2.4	1.9	...	0	0	0	0	0	0	0	0	0	0	0				
Pathankot (Aerodrome) . . .	26.0	...	30.6	1	10.2	...	5.7	29,30	0	0	...	0	...	0	...	5.7	3.9	...	0	0	0	0	0	0	0	0	0	0	0				
Himachal Pradesh																																	
Bilaspur . . .	25.8	...	30.3	1	7.8	...	3.1	27	0	0	...	0	...	0	...	3.5	2.3	...	0	0	0	0	13	0	0	0	0	0	0				
Mandi . . .	24.9	...	29.5	1	7.6	...	3.1	25	1.0	1.0	...	1.0	13	0	...	2.2	1.6	...	1	0	0	0	0	0	0	0	0	0	0				
Jammu and Kashmir																																	
Srinagar . . .	15.0	-1.9	21.2	1	1.2	+1.8	-3.3	27	0	11.8	+0.6	6.4	12	2	+0.9	4.9	3.9	+1.0	2	0	0	0	0	0	10	0	0	0	0	0			
Gulmarg . . .																																	
Sonamarg* . . .																																	
Dras . . .																																	
Kargil . . .																																	
Leh . . .	9.3	+1.1	15.6	1	-5.7	+0.7	-9.4	23	0	0	-1.0	0	...	0	-0.2	7.0	6.2	+3.1	0	0	0	0	0	0	0	0	0	0	0				
Skardu (R) . . .																																	
Gurez (R) . . .																																	
Gilgit (R) . . .																																	
Misgar (R) . . .																																	
Jammu . . .	27.5	+1.9	32.5	1	13.1	-0.3	8.5	30	...	4.6	-2.5	4.2	13	1	+0.4																		
Gund . . .																																	
Pandras (R) . . .																																	
Panamik . . .																																	
Khangral . . .																																	
Digar . . .																																	
Khalatse . . .																																	
Mulbik (R) . . .																																	
Rajasthan (West)																																	
Sri Gangauagar . . .	28.6	-0.6	33.9	9	11.5	+2.7	7.1	27	0.8	1.3	+1.0	1.3	18	0	0	1.4	1.0	-4.6	1	0	0	0	0	0	0	0	0	0	0	0			
Churu . . .	28.5	...	32.4	9	10.1	...	5.2	23,24	9.5	11.9	...	10.9	29	1	...	6.6	4.2	...	2	0	0	0	0	0	0	0	0	0	0	0			
Bikaner . . .	29.4	-1.5	33.9	9	10.9	+0.2	4.9	24	9.2	18.2	+16.9	9.2	29	2	+1.9	4.3	3.2	-0.8	2	0	0	0	0	0	0	0	0	0	0				
Jaisalmer . . .	30.2	...	34.3	6,7	13.6	...	7.8	23	20.0	27.2	...	20.0	28	1	..	8.2	6.6	...	3	0	0	0	0	0	0	0	0	0	0				
Phalodi . . .	30.2	...	33.9	7,810	13.9	...	8.8	25	15.8	27.0	+26.5	12.2	29																				

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—NOVEMBER, 1958 (KARTIKA 10—AGRAHAYANA 9, 1880 SAKA) 567

Division and station	Air temperature in °C								Rainfall in millimetres						No. of rainy days (2.5 mm. or more)			Wind speed, km. per hour			Weather phenomena—No. of days with									
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.3 mm. or more)	Snow or sleet	Thunder heard	Fog	Dust-storm	Cloud frost	Fall	Squall	Line squall				
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29		
1																														
Madhya Pradesh (West)	28.0	-1.6	31.3	3	11.1	+0.5	5.5	22	0	0	-3.6	0	...	0	-0.4	5.3	2.9	...	0	0	0	0	0	0	0	0	0	0		
P. B. O.) Sheopur Kalan	29.5	...	31.5	4	11.6	...	6.1	22	0	0	...	0	...	0	...	6.7	4.3	...	0	0	0	0	0	0	0	0	0	0		
Guna	28.1	-0.4	30.6	3, 29	10.9	+0.3	3.4	23	0	0	-22.1	0	...	0	-0.8	7.7	3.9	...	0	0	0	0	0	0	0	0	0	0		
Rajgarh	29.5	...	32.4	29	11.9	...	6.8	22	0	0	...	0	...	0	...	8.4	5.7	...	0	0	0	0	0	0	0	0	0	0		
Neemuch	28.8	-0.4	30.8	28	14.0	+1.2	10.8	21	3.4	6.2	-1.7	6.2	29	1	+0.6	7.5	5.5	+0.2	1	0	0	0	0	0	0	0	0	0		
Ratlam	29.8	...	31.6	4	15.5	...	11.3	22	5.0	8.2	...	5.0	29	1	...	9.4	7.8	...	3	0	0	3	0	0	0	0	0	0		
Alirajpur	30.7	...	32.3	5	15.5	...	10.6	19	8.4	16.0	...	15.0	26	1	...	7.5	3.6	...	2	0	0	2	0	0	0	0	0	0		
Indore	28.4	-0.7	30.2	4	13.8	+1.8	9.9	20	48.0	69.8	+54.3	69.0	26	1	+0.1	11.2	7.6	...	2	0	0	2	0	0	0	0	0	0		
Bhopal (Bairagarh)	27.9	-0.5	30.1	28	14.1	+1.4	11.3	17, 19	0.8	0.8	-24.9	0.8	26	0	-1.2	11.7	9.0	+3.0	1	0	0	0	0	0	0	0	0	0		
Khandwa	30.8	-0.2	33.1	29	15.6	+2.0	9.8	18	0	22.0	+2.7	13.5	25	2	+1.0	8.6	5.5	+1.8	3	0	0	3	0	0	0	0	0	0		
Hoshangabad	28.9	-0.3	31.6	4	...	...	...	...	0	0	-17.0	0	...	0	-0.9	6.0	3.7	+1.1	0	0	0	0	0	0	0	0	0	0
Betul	27.2	..	29.8	24	14.5	...	8.3	18	35.2	38.2	...	29.4	26	2	...	7.4	4.2	...	4	0	0	0	0	0	0	0	0	0		
Chhindwara	26.0	...	27.8	24	14.8	...	9.6	16, 17	45.0	57.0	...	57.0	26	1	...	7.1	4.9	...	1	0	0	1	0	0	0	0	0	0		
Seoni	27.3	-0.1	28.9	4	15.5	+2.6	11.1	16, 17	36.7	43.7	+26.4	37.9	26	2	+1.0	6.8	3.9	+0.4	2	0	0	1	1	0	0	0	0	0		
Sagar	27.6	-0.5	30.1	29	16.3	+1.3	12.2	22	0	0	-16.0	0	...	0	-0.9	6.9	5.8	...	0	0	0	0	0	0	0	0	0	0		
Nowrang	28.7	+0.5	31.2	4, 5	10.6	-1.0	5.3	23	0	0	-10.9	0	...	0	-0.7	4.5	1.9	+0.6	0	0	0	0	0	0	0	0	0	0		
Madhya Pradesh (East)	28.9	+1.2	31.1	4	13.5	+1.2	10.0	22	0	0	-8.9	0	...	0	-0.7	4.2	1.9	-0.8	0	0	0	0	0	0	0	0	0	0		
Satna	29.4	...	32.2	4	11.9	...	8.8	18	0	0	...	0	...	0	...	4.9	2.3	...	0	0	0	0	0	0	0	0	0	0		
Sidh	28.0	+0.5	31.1	1	12.9	+1.7	8.4	17	0	0	-16.3	0	...	0	-0.7	3.8	2.3	-0.1	0	0	0	0	0	0	0	0	0	0		
Umaria	28.9	+1.0	31.1	25	14.5	+3.2	10.4	18	0	0	-10.9	0	...	0	-0.9	4.6	2.3	+0.4	0	0	0	0	0	0	0	0	0	0		
Jabalpur	28.3	...	30.1	27	13.0	...	7.1	17	0	0	...	0	...	0	...	4.0	1.9	...	0	0	0	2	0	0	0	0	0	0		
Mandla	26.7	+1.4	28.3	15, 25	15.2	+2.3	11.2	18	0	0	-18.3	0	...	0	-1.3	5.7	3.5	...	0	0	0	0	0	0	0	0	0	0		
Pendra	26.7	...	29.4	25	13.1	...	7.9	17	0	0	...	0	...	0	...	9.2	5.6	...	0	0	0	0	0	0	0	0	0	0		
Ambikapur	29.3	...	30.9	27	19.1	...	13.9	17	1.2	1.7	...	1.2	25	0	...	5.3	4.8	...	0	0	0	0	0	0	0	0	0	0		
Champa	30.0	...	32.1	26	19.4	...	13.6	16	0	0	...	0	...	0	...	5.8	4.4	...	0	0	0	0	0	0	0	0	0	0		
Raiagarh	28.9	+0.2	30.1	3	18.7	+2.8	14.2	17	5.0	11.7	-1.8	7.2	24	2	+0.9	7.8	4.7	+1.5	2	0	0	0	0	0	0	0	0	0		
Raipur	28.5	+0.2	30.5	13	17.9	+4.0	11.4	17	0	16.5	+6.8	8.3	26	2	+1.2	5.0	2.8	-0.3	2	0	0	0	0	0	0	0	0	0		
Kanker	28.3	+0.6	31.0	26	17.8	+2.8	11.4	17	7.7	19.8	-9.2	9.7	26	3	+1.1	6.7	3.8	...	5	0	0	2	3	0	0	0	0	0		
Jagdalpur (P.B.O.)	28.3	+0.6	31.0	26	17.8	+2.8	11.4	17	7.7	19.8	-9.2	9.7	26	3	+1.1	6.7	3.8	...	5	0	0	2	3	0	0	0	0	0		
Gujarat	32.8	...	34.7	6	15.2	...	9.4	22	1.2	1.2	...	1.2	29	0	...	9.2	7.0	...	1	0	0	1	0	0	0	0	0	0		
Deesa	31.2	...	32.4	29	19.6	...	...	0	0	0	...	0	...	0	...	9.4	7.3	...	0	0	0	0	0	0	0	0	0	0
Idar	32.5	-0.8	34.0	4	16.5	+0.4	12.0	22	0	0	-3.6	0	...	0	-0.4	10.0	6.0	+2.1	0	0	0	0	0	0	0	0	0	0		
Ahmedabad	30.1	-1.6	31.7	4, 5	16.1	+1.5	12.7	22	0	65.4	+48.9	65.4	26	1	+0.1	9.4	7.0	+2.8	1	0	0	2	0	0	0	0	0	0		
Dohad	33.2	+0.1	35.0	5, 25	17.0	+2.9	12.8	19	0	4.2	-16.1	4.2	26	1	-0.5	2.1	1.0	-1.7	1	0	0	0	0	0	0	0	0	0		
Baroda	32.8	...	34.2	25	18.0	...	14.0	19	0	2.9	...	2.9	26	1	...	13.4	8.9	...	1	0	0	1	0	0	0	0	0	0		
Baroda (Aerodrome)	32.8	...	34.2	25	18.0	...	14.0	19	0	2.9	...	2.9	26	1	...	7.2	5.3	...	2	0	0	0	1	0	0	0	0	0		
Broach	34.1	...	36.1	6	18.3	...	14.2	12, 22	0.4	10.8	...	10.4	25	1	...	7.2	5.3	...	2	0	0	0	1	0	0	0	0	0		
Surat	35.4	+2.1	37.4	6	21.3	+3.0	18.1	22	12.8	15.9	+7.8	7.8	27	3	+2.5	10.9	8.5	+4.0	3	0	0	0	1	0	0	0	0	0		
Saurashtra and Kutch	30.6	...	34.1	6	14.8	...	9.4	23	1.7	5.9	...	4.2	29	1	...	13.8	10.2	...	2	0	0	0	0	0	0	0	0	0		
Naliya	31.8	-0.3	33.9	4, 6	17.4	+0.7	12.6	22	2.1	4.3	+2.3	2.2	29	0	-0.2	8.2	5.8	+0.3	2	0	0	0	0	0	0	0	0	0		
Bhuj (P. B. O.)	31.6	...	33.8	4	16.4	...	11.4	22	0.7	1.3	...	0.7	30	0	...	10.9	7.1	...	2	0	0	0	0	0	0	0	0	0		
Bhuj (Aerodrome)	31.6	...	34.9	5	20.3	...	16.7	22	0.3	0.3	...	0.3	29	0	...	11.3	9.2	...	1	0	0	1	0	0	0	0	0	0		
Kandla	32.2	...	34.9	5	20.4	...	17.1	23	0	1.0	...	1.0	29	0	...	14.2	13.9	...	1	0	0	0	0	0	0	0	0	0		
Mandvi	31.0	...	33.9	5	20																									

568 TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—NOVEMBER, 1958 (KARTIKA 10—AGRAHAYANA 9, 1880 Saka)

Division and station	Air temperature in °C								Rainfall in millimetres						No. of rainy days(2.5mm or more)		Wind speed, km. per hour		Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.3mm. or more)	Snow or sleet	Thunderhead	Fog	Dust storm	Ground frost	Gale	Squall	Lightning		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Konkan—(Contd.)																													
Ratnagiri . .	32.9	...	35.7	10	22.2	...	19.6	14	9.4	10.0	-15.7	9.4	17	1	-0.3	...	...	2	0	0	0	0	0	0	1	0	0	
Devgad . .	32.2	+0.5	35.0	14	23.1	-0.2	20.5	19	0	26.6	-29.8	26.6	16	1	-1.6	12.4	10.2	+0.7	1	0	0	1	0	0	0	0	0	0	
Vengurla . .	32.9	...	35.0	2	21.9	...	17.8	19	12.5	23.5	...	11.5	5	3	...	9.4	5.8	...	4	0	0	5	0	0	0	0	0	0	
Maharashtra	33.4	...	35.7	5	20.1	...	16.7	19	4.5	7.0	...	4.5	29	2	...	8.4	5.4	...	2	0	0	3	0	0	0	0	0	0	
Nandurbar . .	31.9	...	34.0	6	17.0	...	10.5	20	0	45.4	+25.6	29.5	25	3	+2.1	12.9	10.3	...	3	0	0	3	0	0	0	0	0	0	
Jalgaon . .	31.2	+0.3	32.9	5	16.7	+2.4	10.5	20	5.6	28.7	+6.6	14.4	26	2	+0.8	8.4	5.4	+0.3	3	0	0	0	0	0	0	0	0	0	
Deolali . .	30.5	...	31.9	6	16.4	...	11.6	20	14.0	75.7	...	62.5	26	2	...	9.3	5.5	...	2	0	0	2	1	0	0	0	0	0	
Aurangabad . .	30.3	+0.2	31.8	5	18.0	+2.3	12.3	19	12.2	45.3	+21.2	19.1	25	4	-2.7	9.5	8.0	+0.6	4	0	0	2	0	0	0	0	0	0	
Aurangabad (Chikalthana Aerodrome) . .	29.9	...	31.7	4	15.4	..	8.0	19	9.6	65.5	...	44.4	26	4	...	11.7	7.2	...	5	0	0	4	0	0	0	0	0	0	
Khandala . .	...	...	...	...	...	...	...	...	...	2.0	-17.3	2.0	25	0	-1.7	...	...	1	..	...	...	...	...	...	...	...	...	...
Ahmednagar . .	30.2	+0.7	32.6	15	17.3	+2.7	11.6	19	3.7	15.2	-13.0	11.4	25	1	-0.4	9.0	6.7	+0.1	3	0	0	0	0	0	0	0	0	0	
Parbhani . .	30.7	...	32.3	29	16.5	...	10.7	18	14.0	89.4	+54.9	46.8	26	5	-3.2	10.9	7.7	...	5	0	0	2	0	0	0	0	0	0	
Poona . .	31.4	+1.1	33.7	6	17.4	+2.7	12.4	19	12.6	19.1	-8.3	5.4	25	4	-2.4	5.5	2.8	-3.2	5	0	0	3	0	0	0	0	0	0	
Poona (Lohagaon Aerodrome), Barhamati . .	30.8	...	32.6	6	17.5	...	13.1	13	13.8	36.7	...	30.3	25	2	...	...	...	4	0	0	3	1	0	0	0	0	0	0
Jeur . .	31.5	...	33.1	6	17.4	...	11.2	19	11.3	21.2	...	15.5	30	2	...	8.7	7.2	...	5	0	0	0	0	0	0	0	0	0	
Sholapur . .	31.1	+0.3	33.3	15	19.2	+2.1	15.1	19	6.8	9.4	-24.4	5.0	26	2	+0.3	(c) 12.5	8.8	-1.0	5	0	0	0	0	0	0	0	0	0	
Miraj . .	31.5	+1.9	34.4	29	18.8	+1.8	13.9	13	2.1	4.5	-41.7	3.0	24	1	-1.5	..	..	2	0	0	0	0	0	0	0	0	0	
Kolhapur . .	31.6	+1.4	33.7	29	18.7	+2.3	14.2	19	0.5	16.2	-15.4	14.0	16	1	-1.0	13.5	8.8	+0.1	3	0	0	2	0	0	0	0	0	0	
Vidarbha	27.0	...	29.4	5	18.4	...	14.3	19	0	47.6	...	24.0	26	3	...	7.6	6.3	...	3	0	0	0	0	0	0	0	0	0	
Buldhana . .	31.4	+0.3	33.4	5	18.2	+3.5	12.4	19	0	42.6	+24.1	42.2	26	1	0	8.3	5.9	+1.7	2	0	0	0	0	0	0	0	0	0	
Akola . .	30.1	-0.2	31.7	4,5	18.9	+1.9	14.9	16,18	0	27.3	+10.5	23.5	26	2	-1.0	10.1	8.3	+3.0	3	0	0	1	0	0	0	0	0	0	
Amravati . .	28.8	...	31.2	30	18.1	2.7	13.3	18	2.6	3.3	...	1.9	25	0	...	11.7	8.6	...	2	0	0	1	0	0	0	0	0	0	
Yeotmal . .	29.8	-0.1	31.5	5	17.2	+3.2	12.0	18	0	25.6	+6.0	24.0	26	1	-0.1	12.5	8.4	...	3	0	0	1	0	0	0	0	0	0	
Nagpur . .	29.1	...	30.1	27	18.4	...	13.3	16	0	14.4	...	10.0	26	2	...	4.4	2.9	...	3	0	0	1	0	0	0	0	0	0	
Gondia . .	29.5	...	31.1	28,30	19.0	...	13.3	18	3.0	67.0	...	54.0	26	2	...	7.5	4.2	...	3	0	0	1	0	0	0	0	0	0	
Brahmapuri . .	29.3	-0.3	30.9	28	18.2	+3.2	11.4	18	0	19.2	+2.4	19.2	24	1	-0.3	7.2	4.0	+1.7	1	0	0	1	0	0	0	0	0	0	
Chanda . .	29.3	-0.3	32.4	26	20.7	...	14.3	18	13.0	19.3	...	5.8	29	4	..	6.9	4.2	...	6	0	0	1	1	0	0	0	0	0	
Sironcha	30.8	...	32.4	26	20.7	...	14.3	18	13.0	19.3	...	5.8	29	4	..	6.9	4.2	...	5	0	0	0	0	0	0	0	0	0	
Coastal Andhra Pradesh	29.3	-0.3	32.1	8	23.3	+1.1	20.8	17	221.4	463.9	+166.7	119.8	4	11	+2.2	8.8	5.7	+0.9	15	0	0	1	0	0	0	0	0	0	
Nellore . .	27.8	...	30.4	30	22.6	...	20.0	17	52.6	145.4	...	37.2	23	8	..	0.9	0.8	...	9	0	0	0	0	0	0	0	0	0	
Ongole . .	30.3	-0.3	32.5	30	20.6	+0.8	15.6	18	31.2	58.6	+10.3	20.0	3	5	+1.4	5.2	3.0	-2.3	5	0	0	0	0	0	0	0	0	0	
Rentachintala . .	30.6	...	33.1	7	22.9	...	19.3	17	31.8	65.9	...	19.2	23	5	...	13.8	10.6	...	5	0	0	0	0	0	0	0	0	0	
Gannavaram . .	29.5	+0.2	31.9	7	23.4	+1.6	20.3	17	81.7	146.2	-0.6	50.8	23	6	+1.3	12.6	9.6	+2.8	10	0	0	0	0	0	0	0	0	0	
Masulipatam . .	30.0	...	33.2	7	22.2	...	18.7	18	22.6	78.6	...	33.8	21	4	...	9.7	6.9	...	4	0	0	1	0	0	0	0	0	0	
Nidadavolu . .	29.1	+0.7	30.6	12	23.0	+1.0	19.6	17	47.6	241.0	+99.0	66.0	21	10	+5.5	16.8	14.0	+2.7	12	0	0	0	0	0	0	0	0	0	
Kakinada . .	29.0	-0.3	32.4	12	23.1	+1.5	18.6	11	56.9	190.0	+71.4	81.3	22	7	+3.1	13.9	10.4	+4.3	8	0	0	0	0	0	0	0	0	0	
Visakhapatnam . .	30.0	-0.3	32.4	12	23.1	+1.5	18.6	..	44.4	155.9	..	74.0	23	5	..	..	..	5	0	0	0	0	0	0	0	0	0	0
Calingapatam . .	29.8	...	32.4	..	..	..	..	..	44.4	155.9	..	74.0	23	5	..	..	..	5	0	0	0	0	0	0	0	0	0	0
Telangana	30.8	...	33.7	1,29	20.9	...	14.8	18	4.2	37.5	...	13.2	23	4	...	8.3	4.8	...	4	0	0	0	0	0	0	0	0	0	0
Ramagundam . .	29.3	-0.5	31.7	29	18.1	+2.3	12.1	18	12.0	13.0	-4.5	13.0	24	1	-0.1	6.4	4.9	+1.4	1	0	0	0	0	0	0	0	0	0	
Nizamabad . .	29.8	...	31.3	4 days.	20.0	...	15.1	18																					

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—NOVEMBER, 1958 (KARTIKA 10—AGRAHAYANA 9, 1880 SAKA) 569

Division and station	Air temperature in °C								Rainfall in millimetres						No. of rainy days (2.5 mm. or more)	Wind speed, km. per hour	Weather phenomena—No. of days with												
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0-3 mm. or more)	Snow or sleet	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall		
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
1																													
Madras State—(Contd.)																													
Coimbatore (Peela-medu Aerodrome)	28.5	-1.2	30.5	27	21.8	+1.2	19.4	21	16.9	127.4	+25.0	34.0	21	9	+2.2	8.1	6.0	+2.5	11	0	0	3	2	0	0	0	0	0	
Coimbatore (Peela-medu Aerodrome)	30.5	...	32.5	13	21.6	..	18.6	25	8.4	85.5	..	34.5	21	7	—	12.5	10.5	..	9	0	0	7	5	0	0	0	0	0	
Salem	31.7	+1.1	34.7	8	22.0	+1.3	24.1	5	22.4	67.9	-28.9	45.4	21	3	-3.2	6.9	7.5	+3.3	5	0	0	1	0	0	0	0	0	0	
Kallakurichi	31.4	...	34.8	8	23.3	...	21.3	21	28.7	71.9	..	31.4	20	4	..	10.1	7.6	..	8	0	0	0	0	0	0	0	0	0	
Cuddalore	29.6	+0.5	32.4	7	23.7	+1.1	21.4	21	45.6	194.1	-200.1	99.1	20.0	8	-3.6	8.9	6.7	+0.6	10	0	0	2	0	0	0	0	0	0	
Vellore	29.7	+0.6	33.2	8	22.1	+1.5	20.0	4	114.7	237.8	+42.7	63.3	23	9	+0.5	8.1	6.2	+3.0	11	0	0	4	0	0	0	0	0	0	
Tirupattur	30.0	...	33.2	8	20.5	..	18.3	7,11	69.8	189.8	..	95.0	21	5	..	..	..	..	5	0	0	0	0	0	0	0	0	0
Tambaram (Aerodrome)	29.7	...	33.1	8	23.2	..	21.6	21	98.8	426.9	..	127.7	20	11	..	..	..	..	13	0	0	0	0	0	0	0	0	0
Madras	29.0	-0.7	31.3	8	23.5	+1.3	21.3	21	159.3	469.4	+114.8	155.3	21	9	-2.1	16.1	11.3	-3.7	12	0	0	1	0	0	0	0	0	0	
Madras (Nungambakkam)	28.9	...	31.1	8	23.7	..	21.7	21	..	463.6	..	147.4	20	9	..	..	6.4	..	10	0	0	1	0	0	0	0	0	0
Coastal Mysore																													
Karwar	30.7	..	34.0	9	20.8	..	16.2	19	0	43.6	-5.2	26.4	5	2	-0.8	6.3	3.6	..	2	0	0	0	0	0	0	0	0	0	
Honavar	31.9	-0.8	34.1	17,21	22.9	+1.0	20.0	26	2.0	39.4	-22.1	26.2	5	2	-0.9	3.0	1.8	-2.4	4	0	0	3	0	0	0	0	0	0	
Mangalore	30.7	-0.3	32.3	10,17	24.0	+0.9	21.6	19,26	7.6	145.0	+72.6	112.1	23	4	-0.4	9.1	7.2	+0.8	6	0	0	4	0	0	0	0	0	0	
Mangalore (Bajpe Aerodrome)	31.5	...	33.6	17	22.6	..	19.6	19	22.4	87.7	..	33.6	23	5	..	..	..	..	6	0	0	4	0	0	0	0	0	0
Mysore (North)																													
Pidur	28.1	0	30.0	29	18.7	+0.6	15.3	18	19.0	24.0	+2.2	10.0	25	3	+1.3	6.3	8.7	+0.2	5	0	0	0	0	0	0	0	0	0	
Gulbarga	30.8	+0.1	33.3	15	19.7	+2.4	15.0	17	5.6	7.6	+20.3	5.4	30	1	-0.7	13.3	11.9	+2.4	4	0	0	1	0	0	0	0	0	0	
Bijapur	30.4	+0.6	31.9	19	19.3	+2.2	15.0	19	9.0	24.8	-7.5	11.4	24	3	+1.2	7.0	4.2	+0.3	3	0	0	2	6	0	0	0	0	0	
Belgaum (C.T.O.)+	30.2	+0.8	33	15	17.8	+1.0	14	19,26	11.8	59.0	+19.6	32.2	30	2	-0.4	..	..	..	4	0	0	2	0	0	0	0	0	0
Belgaum (Sambre Aerodrome) + Gadag	31.0	+1.6	32.9	30	19.7	+1.5	15.0	..	3.2	98.8	..	59.6	30	2	..	..	..	..	5	0	0	4	0	0	0	0	0	0
Raichur	30.4	+0.1	32.2	15	21.5	+1.7	18.1	18,19	0	28.8	-0.7	25.2	24	2	+0.2	9.8	8.0	-0.7	2	0	0	0	0	0	0	0	0	0	
Mysore (South)	30.7	+0.1	32.2	14,15	21.2	+2.2	18.2	18	12.2	36.0	-14.0	16.0	23	4	+0.9	7.6	4.7	+0.8	4	0	0	1	0	0	0	0	0	0	
Guldhurd	28.8	+0.4	30.6	15	19.6	+1.3	16.8	18	0.8	37.6	-22.6	22.2	22	2	-1.4	7.4	5.2	-0.8	3	0	0	0	0	0	0	0	0	0	
Shimoga	29.8	..	32.3	15	18.5	..	13.6	19	5.0	31.3	..	18.9	22	3	..	7.4	3.6	..	4	0	0	1	10	0	0	0	0	0	
Balehonnur	26.3	+0.2	28.1	28	17.0	+0.6	14.7	19	..	30.9	-41.2	21.3	22	2	-2.7	..	..	..	6	0	0	0	0	0	0	0	0	0
Kusagan	27.3	+0.2	29.6	5	18.0	+1.7	14.9	18	9.8	69.8	-7.2	45.4	22	3	-1.6	6.6	4.1	-0.4	5	2	2	1	0	0	0	0	0	0	
Mysore	28.1	+0.2	30.6	5	19.6	+1.6	16.6	25	42.6	111.8	+42.2	57.6	22	3	-1.2	9.9	7.8	-0.2	4	0	0	1	1	0	0	0	0	0	
Bangalore (Central Observatory)	27.1	+0.8	29.5	8	18.2	+1.7	15.0	18	31.6	81.9	+14.1	53.8	22	5	+0.5	9.3	8.5	+1.4	5	0	0	0	3	0	0	0	1	0	
Bangalore (Aerodrome)	28.2	...	30.7	15	18.6	..	15.3	18	27.6	71.4	..	36.6	22	3	..	..	..	..	5	0	0	0	3	0	0	0	0	1
Kerala																													
Kozhikode	31.0	+0.3	32.6	9	24.2	+0.9	21.3	21	46.6	134.2	-4.5	38.4	23	6	-0.2	9.6	8.8	+2.7	8	0	0	9	0	0	0	0	0	0	
Palghat	31.9	..	33.9	13	23.4	..	20.4	22	28.2	212.5	..	53.6	17	10	..	8.2	6.2	..	16	0	0	3	0	0	0	0	0	0	
Fort Cochin	30.1	+0.3	32.2	16	24.5	+0.4	22.1	17	21.6	141.4	-28.5	43.1	22	10	+1.6	7.6	4.8	-0.5	13	0	0	12	0	0	0	0	0	0	
Cochin (Naval Air Station)	30.7	...	32.5	16	24.1	..	22.2	17	37.5	161.8	..	48.8	17	7	..	6.8	3.9	..	12	0	0	16	0	0	0	0	1	0	
Alleppey	30.2	...	31.2	17	24.1	..	22.7	21	9.4	203.6	..	64.1	17	8	..	13.7	10.2	..	14	0	0	10	0	0	0	0	0	0	
Punalur	32.0	...	33.8	27	23.0	..	21.2	25	53.3	194.1	..	47.4	2	13	..	4.5	2.7	..	13	0	0	0	0	0	0	0	0	0	
Trivandrum	30.3	+0.2	31.7	28	23.3	+0.2	21.3	26	58.6	87.4	-89.9	18.4	21	9	-0.5	7.6	5.2	+1.0	16	0	0	8	0	0	0	0	0	0	
Trivandrum (Aerodrome)	30.4	...	31.4	16	23.8	..	21.6	26	..	57.4	..	12.1	23	7	5.7	..	11	0	0	3	4	0	0	0	0	0	0
Arabian sea Islands																													
Minicoy*																													
Amini Divi*																													
Hill Stations excluding Kashmir																													
Walong (R.)																													

570 TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—NOVEMBER, 1958 (KARTIKA 10—AGRAHAYANA 9, 1880 SAKA)

Division and station	Air temperature in °C								Rainfall in millimetres						No. of rainy days (2.5 mm. or more)		Wind speed, km. per hour		Weather phenomena—No. of days with												
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall	Line squall			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29		
Hill Stations excluding Kashmir—(Contd.)																															
Rana . . .	...	...	...	...	...	...	...	...	0	...	0	...	0	...	0	...	0	...	0	0	...	0	0	0	0	0	0	0	0	0
Simla . . .	16.3	+1.7	20.1	1	8.6	+1.8	6.1	13	0	0	-13.2	0	...	...	0	-1.1	3.5	2.9	+0.9	0	0	0	0	0	0	0	0	0	0	
Dharampore . . .	...	...	...	...	...	...	...	...	0	0	-8.1	0	...	0	-0.8	...	...	...	...	0	...	0	...	0	...	0	...	0	...	0
Kyelang . . .	...	...	...	...	...	...	...	...	13.9	+5.0	8.6	17	2	+1.2	...	...	...	...	...	0	...	0	...	0	...	0	...	0	...	0
Gondia . . .	...	...	...	...	...	...	...	...	0	0	0	0	...	0	0	...	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kothi . . .	...	...	...	...	...	...	...	...	0	0	0	0	...	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Koksar (R) . . .	...	...	...	...	...	...	...	...	0	0	-19.3	0	...	0	-0.9	1.4	2.1	...	0	0	0	0	0	0	0	0	0	0	0	
Dalhousie . . .	19.4	...	25.7	2	8.3	...	3.3	19	0	0	-19.3	0	...	0	-0.9	1.4	2.1	...	0	0	0	0	0	0	0	0	0	0	0		
Dharamshala . . .	21.2	...	24.7	1	11.9	...	9.5	25,26,29	0	0	0	0	...	0	0	3.0	1.7	...	0	0	0	0	0	0	0	0	0	0	0	0	
Abu . . .	23.2	0	25.7	10,15	13.9	-0.4	10.1	22	36.1	36.1	+30.5	29.6	28	2	+1.6	6.2	5.7	+1.0	2	0	0	0	0	0	0	0	0	0	0		
Pachmarhi . . .	24.3	+0.7	26.1	4	11.4	+1.0	5.8	17	2.4	4.2	-14.6	4.2	26	1	-0.2	4.4	3.0	-0.1	1	0	0	4	0	0	0	0	0	0	0		
Mahabaleshwar . . .	24.1	+0.8	26.7	15,16	15.6	+0.7	12.8	19	8.4	38.3	-1.3	22.6	24	3	+0.6	10.0	10.9	-1.2	6	0	0	6	5	0	0	0	0	0	0		
Nandi Hills . . .	22.0	...	23.9	30	16.1	...	13.9	6	...	93.6	...	50.0	22	4	...	3.6	...	5	0	0	0	30	0	0	0	0	0	0			
Mercara . . .	24.1	+0.2	26.8	5	17.0	+1.2	13.5	4	46.1	109.2	+33.0	46.2	23	5	-0.3	10.0	9.0	+2.4	7	0	0	0	0	0	0	0	0	0	0		
Kodaikanal . . .	16.8	+0.7	19.6	25	10.0	+0.3	8.7	15	73.0	210.6	-48.2	70.0	21	9	-3.8	10.7	12.6	+0.5	14	0	0	2	14	0	0	0	0	0	0		
Ootacamund . . .	18.6	+1.0	21.7	29	6.1	-2.8	3.3	18	34.0	191.4	+30.6	134.0	21	6	-4.5	5.0	3.1	-1.2	11	0	0	1	0	0	0	0	0	0	0		
Coonoor . . .	19.9	+0.5	21.1	8,18,27	12.6	+0.8	8.2	25	...	303.1	+17.9	117.0	9	11	-1.7	...	4.5	-0.5	14	0	0	0	0	0	0	0	0	0	0		
Sikkim																															
Thangu . . .	...	...	...	...	...	...	...	...	0	0	0	0	...	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chungthang . . .	(n)	...	...	...	...	(n)	...	...	9.8	...	2.8	7	1	...	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lachen	13.3	...	...	...	...	-4.8	...	...	0	0	0	0	...	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tibet																															
Yatung (Chumbi)(R)	0	0	0	0	...	0	0	3.0	...	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lhasa . . .	15.7	...	19.4	4,5	4.4	...	7.5	24,25,28	...	0	0	0	0	...	0	0	3.0	...	0	0	0	0	0	0	0	0	0	0	0	0	
Ceylon																															
Colombo . . .	29.4	-0.6	31.1	16	23.3	+0.1	21.8	16	34.9	268.3	-58.1	30.7	11	18	+4.4	...	...	...	24	0	0	0	0	0	0	0	0	0	0	
Trincomalee . . .	29.5	0	32.3	23	24.3	+0.6	23.0	17,21,25	62.5	264.0	-83.0	73.4	3	16	+2.1	...	...	...	23	0	0	0	0	0	0	0	0	0	0	
Batticaloa . . .	29.8	...	31.7	1,2	23.8	...	22.7	4	77.7	300.1	...	90.7	4	14	...	...	...	...	15	0	0	0	0	0	0	0	0	0	0	
Hambantota . . .	29.8	+0.1	31.6	4	24.0	+0.7	22.2	17	6.4	77.3	-100.8	45.7	17	7	-3.0	...	...	...	12	0	0	0	0	0	0	0	0	0	0	
Mannar . . .	29.6	...	31.0	10,26	25.2	...	23.1	2	60.2	174.6	...	38.1	19	12	...	...	...	...	15	0	0	0	0	0	0	0	0	0	0	
Hydrometeorological Observatories																															
Damodar Catchment																															
Bokaro . . .	28.6	...	30.9	25	14.2	...	9.2	16	0	0	0	0	...	0	0	6.1	3.9	...	0	0	0	0	0	0	0	0	0	0	0	0	
Hazaribagh . . .	26.0	...	28.1	3	13.4	...	9.2	17	0	0	0	0	...	0	0	5.2	2.9	...	0	0	0	0	0	0	0	0	0	0	0	0	
Tilaiya . . .	27.4	...	30.7	3	15.6	...	11.7	16	0	0	0	0	...	0	0	7.4	3.4	...	0	0	0	0	0	0	0	0	0	0	0	0	
Ramgarh . . .	28.8	...	31.2	1	14.9	...	10.4	28	0	0	0	0	...	0	0	3.2	1.6	...	0	0	0	0	0	0	0	0	0	0	0	0	
Panchet Hills . . .	29.5	...	31.6	4,5	17.9	...	13.9	16	0.5	0.5	0.5	0.5	...	0.5	0.5	12	0	...	6.3	4.2	...	1	0	0	0	0	0	0	0	0	0
Durgapur . . .	29.5	...	31.7	5	18.4	...	14.1	29	0.5	1.0	0.5	0.5	...	0.5	0.5	11,12	0	...	8.2	6.8	...	2	0	0	0	4	0	0	0	0	0
Asansol . . .	...	...	...	...	...	...	...	...	0	0	0	0	...	0	0	0	0	...	0	0	0	0	0	0	0	0	0	0	0	0
Dhanwar . . .	...	...	...	...	...	...	...	...	0	0	0	0	...	0	0	0	0	...	0	0	0	0	0	0	0	0	0	0	0	0
Dumtri . . .	...	...	...	...	...	...	...	...	0	0	0	0	...	0	0	0	0	...	0	0	0	0	0	0	0	0	0	0	0	0
Bishunghar . . .	...	...	...	...	...	...	...	...	0	0	0	0	...	0	0	0	0	...	0	0	0	0	0	0	0	0	0	0	0	0
Chandwa . . .	...	...	...	...	...	...	...	...	0	0	0	0	...	0	0	0	0	...	0											

TABLE II.—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—NOVEMBER, 1958 (KARTIKA 10—AGRAHAYANA 9, 1880 SAKA) 571

Division and station	Air temperature in °C									Rainfall in millimetres					No. of rainy days (2.5mm. or more)		Wind speed, km. per hour		Weather phenomena—No. of days with										
	Mean maximum 2	Departure from normal 3	Highest 4	Date 5	Mean minimum 6	Departure from normal 7	Lowest 8	Date 9	Total fall during 0830-1730 hours 10	Total fall in 24 hours 11	Departure from normal 12	Heaviest fall in 24 hours 13	Date 14	Total in the month 15	Departure from normal 16	Mean between 0830-1730 hours 17	Mean 24 hours 18	Departure from normal 19	Precipitation (0.3mm. or more) 20	Snow or sleet 21	Hail 22	Thunder heard 23	Fog 24	Dust storm 25	Ground frost 26	Gale 27	Squall 28	Line squall 29	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
Hydrometeorological Observatories—Concl'd.																													
Sabarmati Catchment																													
—(Concl'd.)																													
Bikrani . . . . .	...	...	...	...	...	...	...	...	...	2.0	...	1.2	28	0	...	...	...	...	2	...	...	...	...	...	...	...	...	...
Tarpal . . . . .	...	...	...	...	...	...	...	...	33.0	...	20.3	29	2	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...
Kotra Cantonment . . . . .	...	...	...	...	...	...	...	...	25.7	...	25.4	27	1	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...
Dharoi	31.9	...	33.3	26	16.5	...	12.2	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Ganga Catchment																													
Mukhim	19.2	...	21.9	1	9.3	...	6.8	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Tehri	26.4	...	30.7	1	10.1	...	5.2	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Gandak Catchment																													
Gorkha	22.8	...	25.9	2	13.8	...	11.2	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Pokhara	24.9	...	27.7	1	13.0	...	10.6	30	0	0.3	0	0.3	5	0	0	0	0	0	1	...	...	...	...	...	...	...	...	...
Nawakot	25.1	...	28.1	1	14.1	...	11.9	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Jomosom . . . . .	...	...	...	...	...	...	...	...	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Timure	20.5	...	23.8	1	6.7	...	3.9	15	0	2.0	0	2.0	5	0	0	0	0	0	1	...	...	...	...	...	...	...	...	...
Gogra Catchment (Trans Himalayan Region)																													
Daijeckh	(c)	20.1	...	23.2	1	(c)	8.0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gogra Catchment																													
Dandeldhura	18.4	...	22.4	21	9.8	...	7.4	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Munsiyari . . . . .	...	...	...	...	...	...	...	...	...	9.0	...	9.0	29	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...
Sallyana (R) . . . . .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Butwal	28.1	...	30.7	2	17.4	...	15.7	21,25,26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Bagmati Catchment																													
Katmandu* . . . . .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Kosi Catchment																													
Chautara	23.1	...	26.7	18	12.0	...	10.8	21,22,26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Okhaldunga (R) . . . . .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Barahkshetra	28.1	...	30.5	1	15.3	...	12.3	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Angbung (R) . . . . .	...	...	...	...	...	...	...	...	0	5.3	...	2.8	3	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Taplejung	19.2	...	22.2	9	...	...	...	8	...	11.5	...	9.7	6	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Taplethok	24.3	...	27.7	7	10.8	...	8.1	26	0	2.6	...	1.8	6	0	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Wallung Chung Gola	11.5	...	15.4	19	0.5	...	-2.5	25,26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Bhojpur	20.2	...	23.1	1	11.2	...	9.3	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Chainpur	23.0	...	26.3	1	13.7	...	11.2	30	7.2	71.8	...	21.5	3	4	...	3.9	3.0	...	10	0	0	0	5	0	0	0	0	0	
Tista Catchment																													
Gangtok	17.7	...	21.8	1	9.2	...	6.1	30	2.0	48.4	...	17.0	4	5	...	...	...	...	6	...	...	...	...	...	...	...	...	...
Geyzing	20.7	...	24.4	2	13.2	...	10.5	26	2.0	48.4	...	17.0	4	5

(b) Mean of 29 days.

(R) Register not received.

(c) Mean of 28 days.

* Data included under 'Hill Stations'.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—NOVEMBER, 1958 (KARTIKA 10—AGRAHAYANA 9, 1880 SAKA)

Division and station		Hour of observation I.S.T.	Mean temperature in °C																		No. of observations																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
			Height of barometer column above mean sea level in metres		Mean pressure in millibars		At mean sea level or height in feet of nearest standard isobars level		At station level		Dry bulb			Wet bulb			Dew point			Vapour pressure in mbs.		Relative humidity %		Cloud amount (Oktas)		Wind speed, (km. p.h.)		Wind direction																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	970	971	972	973	974	975	976	977	978	979	980	981	982	983	98

*Observations for 29 days.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—NOVEMBER, 1958 (KARTIKA 10—AGRAHAYANA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.			At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean temperature in °C						Cloud amount (Oktas)				No. of observations														
	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			At station level	Departure from normal	Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Mean amount	Departure from normal	Mean wind speed km./per hour	Wind speed (km.p.h.)				Wind direction									
		2	3		4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1																													
Assam including Manipur Tripura—(Contd.) Gauhati Aerodrome).	0830	54	1016.7	1010.4	...	22.5	20.3	18.9	22.0	80	...	2.8	...	1.4	0	0	10	0	8	0	0	0	1	1	0	20	0	0	
	1130	"	1014.4	1008.2	...	26.3	21.5	18.8	21.7	64	...	3.1	...	5.5	0	0	25	8	13	3	0	0	0	0	1	5	0	0	
Rangiya	0830	...	1012.7	1006.4	...	22.7	20.8	19.6	22.6	83	...	2.8	...	0.7	0	0	6	1	4	0	0	0	0	1	0	24	0	0	
	1730	"	1014.6	1008.3	...	18.6	18.1	17.6	20.2	95	...	1.7	...	0.1	0	0	1	6	1	0	0	0	0	0	0	29	0	0	
Goalpara	0830	38	1015.4	1011.2	...	21.6	19.3	17.4	20.7	78	...	2.5	...	8.3	0	0	27	0	5	15	4	0	1	2	0	3	0	0	
	1730	"	1012.2	1007.8	...	26.9	22.1	19.3	22.7	64	...	0.3	...	2.1	0	0	18	4	6	3	1	0	1	1	2	12	0	0	
Dhubri	0830	35	1016.9	1012.9	+1.0	22.7	20.3	18.8	21.8	79	+0	0	-1.7	4.4	0	0	16	0	9	0	0	0	0	0	7	14	0		
Dhubri (Rupsi Aerodrome).	0530	36	1014.0	1009.8	...	17.0	16.5	16.1	18.3	94	...	1.4	...	2.7	0	0	16	0	14	2	0	0	0	0	0	0	14	0	
	0830	"	1015.7	1011.5	...	22.9	20.2	18.7	21.3	77	...	1.2	...	7.3	0	0	29	0	6	16	6	0	0	0	0	0	1	1	0
	1130	"	1013.9	1009.8	...	26.7	21.7	18.9	21.8	63	...	2.3	...	8.2	0	0	27	1	7	12	5	0	2	0	0	0	3	0	0
	1730	"	1012.1	1008.0	...	21.8	20.4	19.7	22.9	87	...	2.1	...	1.0	0	0	5	2	2	1	0	0	0	0	0	0	25	0	0
Tura	0830	370	1017.5	975.9	...	20.0	17.1	14.6	17.3	75	...	1.4	...	2.4	0	0	21	0	3	12	5	1	0	0	9	0	0	9	0
	1730	"	1012.7	972.4	...	25.1	20.7	17.7	20.8	65	...	3.2	...	2.2	0	0	21	0	0	3	2	5	8	2	1	9	0	0	
Agartala	0230	16	1012.6	1010.8	...	18.6	18.0	17.6	20.2	94	...	1.8	...	1.9	0	0	8	1	4	1	2	0	0	0	0	0	22	0	
	0530	"	1013.2	1011.4	...	27.9	17.4	16.9	19.4	95	...	2.3	...	1.7	0	0	11	3	1	2	4	1	0	0	0	0	19	0	
	0830	"	1015.0	1013.2	...	24.6	21.3	19.6	22.6	73	...	2.7	...	5.0	0	0	24	6	10	2	4	1	0	0	1	6	0		
	1130	"	1013.3	1011.5	...	28.3	21.7	17.8	20.4	54	...	3.3	...	6.6	0	0	29	10	9	1	2	2	1	0	4	1	0		
	1730	"	1011.8	1009.9	...	4.5	21.6	19.9	23.4	75	...	2.8	...	3.1	0	0	18	9	1	2	0	0	1	0	5	12	0		
	2330	"	1013.3	1011.6	...	19.5	18.8	18.2	21.3	93	...	1.2	...	1.9	0	0	9	1	2	1	3	2	0	0	0	21	0		
Kailashar (C.W.O.)	0530	"	"	"	...	18.8	17.7	17.3	19.4	95	...	3.7	...	1.0	0	0	3	1	0	2	0	0	0	0	0	27	0		
	0830	"	"	"	...	22.6	20.6	19.5	22.6	83	...	2.4	...	3.3	0	0	13	3	1	1	0	4	1	0	3	17	0		
	1130	"	"	"	...	27.8	23.8	21.6	26.3	68	...	2.5	...	6.0	0	0	20	3	6	2	1	2	2	3	1	10	0		
	1730	"	"	"	...	23.8	21.9	20.9	24.9	84	...	1.6	...	0	0	0	0	0	0	0	0	0	0	0	9	0	30	0	
Silchar	0830	29	1016.3	1012.9	+0.6	23.4	19.8	17.6	20.2	70	-10	1.9	-0.6	0	0	0	0	0	0	0	0	0	0	0	0	30	0		
	1730	"	1012.5	1009.1	...	24.7	21.4	19.5	22.9	73	...	1.6	...	0.0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	
Silhar Kumbhigram Aerodrome).	0530	97	1013.3	1001.9	...	16.8	15.6	14.9	16.7	90	...	2.1	...	7.0	0	0	30	0	5	24	1	0	0	0	0	0	0	0	
	0830	"	1014.9	1003.7	...	20.4	18.6	16.7	19.9	72	...	1.5	...	7.8	0	1	29	0	2	21	7	0	0	0	0	0	0	0	
	1130	"	1012.5	1001.6	...	26.5	20.8	17.3	20.1	57	...	1.5	...	6.2	0	1	29	0	1	18	8	2	0	1	0	0	0	0	
	1730	"	1011.0	999.9	...	23.1	20.5	18.7	22.1	77	...	1.8	...	3.6	0	1	21	9	6	7	0	0	0	0	0	0	8	0	
Inphal	0530	801	1019.5	927.3	...	10.3	10.1	9.9	12.2	98	...	2.3	...	0.6	0	0	4	0	2	0	1	3	4	0	0	26	0		
	0830	"	1018.6	928.7	...	17.3	14.8	12.6	15.1	74	...	2.7	...	1.2	0	0	10	0	2	0	1	3	4	0	0	20	0		
	1130	"	1014.1	926.2	...	22.9	16.9	12.8	15.0	53	...	2.9	...	5.1	0	1	22	1	0	0	4	11	5	1	1	7	0		
	1730	"	1014.3	925.0	...	18.5	15.5	13.1	15.4	71	...	2.6	...	2.7	0	1	17	0	0	0	0	0	3	5	10	12	0		
	2330	"	1018.1	926.7	...	12.6	12.2	11.8	14.1	95	...	2.4	...	0.2	0	0	2	0	0	0	0	0	1	0	0	28	0		
Haflong	0830	682	1015.9	939.6	...	20.1	17.3	15.6	17.8	76	...	2.5	...	3.7	0	0	30	10	14	1	1	0	3	0	1	0	0		
	1730	"	1012.0	936.0	...	20.8	17.9	16.1	18.4	75	...	3.1	...	3.4	0	0	30	7	4	1	0	1	9	0	8	0	0		
Lumding	0830	149	1017.2	999.9	...	20.5	18.6	17.6	19.8	83	-6	3.0	...	0	0	0	0	0	0	0	0	0	0	0	0	30	0		
	1730	"	1012.9	996.1	...	23.6	20.9	19.6	22.5	78	...	2.5	...	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	
Sub-Himalayan West Bengal Cooch Behar (C.W.O.)	0830	43	1016.7	1011.6	...	22.4	19.3	17.4	20.0	74	...	0.6	...	7.6	0	1	28	1	10	15	3	0	0	0	0	1	0	0	
	1130	"	1014.7	1009.7	...	26.9	20.9	17.3	19.7	56	...	1.4	...	8.5	0	1	25	0	8	13	3	1	0	0	0	0	4	1	
	1730	"	1012.9	1007.9	...	22.6	20.1	18.6	21.6	78	...	1.4	...	0.7	0	0	3	0	2	1	0	0	0	0	0	0	27	0	
Jalpaiguri	0830	83	1017.0	1007.3	+0.1	19.4	17.7	16.4	19.3	84	+4	0.3	-0.8	4.3	0	0	28	16	8	1	0	0	0	0	0	3	2	0	
	1730	"	1012.8	1003.3	...	25.9	20.5	17.0	20.3	59	...	1.1	...	2.4	0	0	17	3	3	5	0	0	2	3	1</				

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—NOVEMBER, 1958 (KARTIKA 10—AGRAHYANA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer datum above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mb.			Cloud amount (Octas)			Wind speed (km p.h.)			No. of observations												
			At mean sea level or height in g.p.m. of nearest standard isobaric level			At station level			Departure from normal			Relative humidity %			Departure from normal			Mean wind speed, km. per hour			Wind direction									
			2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	N	NE	E	SE	S	SW	W	NW	Calm	Variable	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28			
Gangetic W. Bengal—Contd. Dum Dum—Contd.	1730	6	1012.2	1011.9	...	25.3	22.3	20.6	24.4	75	...	3.4	...	0.6	0	0	5	2	0	0	1	2	0	0	0	25	0			
	2330	"	1013.8	1013.0	...	21.1	20.2	19.7	23.1	92	...	1.8	...	1.1	0	0	8	3	2	0	1	0	1	0	1	22	0			
Calcutta	0830	6	1015.2	1014.5	0	24.8	20.9	18.7	21.7	70	-6	2.6	+0.8	3.8	0	0	20	7	7	2	1	0	0	2	1	10	0			
	1130	"	1013.8	1013.1	...	28.4	21.9	18.2	21.3	55	...	3.2	...	9.3	0	0	28	9	8	3	0	1	1	1	5	2	0			
Barrackpore	1730	"	1011.9	1011.2	...	25.4	21.3	18.9	21.9	68	...	3.1	...	3.2	0	0	17	5	2	3	0	1	2	0	4	13	0			
	0530	7	1013.6	1012.8	...	19.9	19.1	18.6	21.4	92	...	3.0	...	2.1	0	0	12	3	4	1	0	0	0	0	4	18	0			
	0830	"	1015.7	1014.9	...	24.1	21.1	19.4	22.5	75	...	3.0	...	6.5	0	0	22	8	5	4	0	0	0	2	3	8	0			
	1130	"	1014.2	1013.5	...	27.8	22.5	19.5	23.9	60	...	4.0	...	9.9	0	0	28	9	6	6	0	0	0	2	5	2	0			
	1730	"	1012.2	1011.4	...	24.7	21.7	20.1	23.5	75	...	2.9	...	1.7	0	0	9	2	0	3	0	0	0	0	4	21	0			
	2330	"	1013.9	1013.1	...	21.3	20.1	19.4	22.7	90	...	1.9	...	1.3	0	0	10	2	2	1	1	0	0	1	1	4	20	0		
Saugor Island	0830	3	1014.6	1014.3	-0.2	24.8	21.9	20.5	24.3	76	+1	3.2	+0.6	15.4	0	4	26	10	10	5	1	0	0	1	3	0	0			
	1730	"	1011.6	1011.3	...	22.6	21.9	19.9	23.5	71	...	4.1	...	9.1	0	1	24	9	4	2	1	2	3	1	3	5	0			
Sandheads	0530	10	1012.5	1011.4	...	26.1	22.3	20.1	24.4	70	...	3.4	...	18.6	0	13	14	10	7	4	1	1	1	0	3	3	0			
	0830	"	1014.3	1013.2	-0.2	26.7	22.8	20.7	25.5	70	+8	3.5	+0.7	17.8	0	10	17	9	12	3	1	1	0	1	0	3	0			
	1130	"	1013.4	1012.3	...	27.1	22.8	20.5	24.5	67	...	3.9	...	19.1	0	11	19	9	12	5	1	0	1	0	2	0	0			
	1730	"	1011.8	1010.7	...	26.9	22.7	20.6	24.4	69	...	3.7	...	17.4	0	10	19	10	9	3	4	1	1	0	1	1	0			
	2330	"	1012.7	1011.6	...	26.4	22.8	20.5	24.8	71	...	2.0	...	16.8	0	6	21	10	6	7	3	1	0	0	0	3	0			
	0830	11	1015.1	1013.9	...	24.8	21.6	19.7	22.9	74	...	2.2	...	3.1	0	0	26	12	4	7	0	0	0	2	1	4	0			
Contai	1730	"	1012.1	1010.9	...	25.7	21.9	19.8	23.0	71	...	2.3	...	1.4	0	0	12	0	0	4	4	2	0	1	1	18	0			
	0830	45	1015.8	1010.6	+0.6	24.6	21.0	18.3	21.9	69	+3	2.2	+0.4	3.2	0	0	23	6	15	1	0	0	0	0	1	7	0			
Midnapore	1730	"	1011.9	1006.8	...	26.6	21.1	17.9	20.4	60	...	1.6	...	1.9	0	0	16	3	5	5	0	1	0	0	2	14	0			
	0830	255	1016.3	987.6	...	22.6	18.7	16.1	18.4	67	...	1.9	...	1.9	0	0	18	5	2	0	0	0	1	2	8	12	0			
Burwan	0830	32	1015.7	1012.0	+0.3	23.7	21.0	19.2	23.4	77	+8	1.8	+0.1	0.4	0	0	2	2	0	0	0	0	0	0	0	28	0			
	1730	"	1012.4	1008.7	...	26.0	21.9	19.1	22.7	67	...	1.6	...	1.1	0	0	5	2	0	1	2	1	0	0	1	25	0			
Krishnagar	0830	15	1015.9	1014.2	+0.5	24.6	20.9	19.0	21.9	71	+2	1.9	+0.2	1.6	0	0	16	3	7	1	0	1	1	0	3	14	0			
	1730	"	1012.5	1010.8	...	25.7	21.2	18.7	21.7	65	...	1.7	...	0	0	0	0	0	0	0	0	0	0	0	0	30	0			
Asansol	0230	126	1013.7	999.0	...	19.5	18.4	17.8	20.9	89	...	1.6	...	0.8	0	0	7	3	1	0	0	0	0	0	2	23	0			
	0530	"	1014.5	999.8	...	18.4	17.7	17.1	19.4	92	...	1.9	...	1.3	0	0	9	3	0	0	0	0	0	1	1	4	21	0		
	0830	"	1016.1	1001.6	+0.6	23.3	20.2	18.4	21.3	74	+5	1.9	-0.2	2.5	0	0	15	1	3	2	0	0	0	0	2	7	15	0		
	1130	"	1014.7	1000.4	...	27.3	21.5	18.3	20.9	59	...	2.6	...	5.4	0	0	24	8	3	3	0	0	0	0	0	10	6	0		
	1730	"	1012.5	998.1	...	25.0	20.9	18.5	21.2	67	...	2.3	...	0.3	0	0	2	0	0	1	0	0	0	0	1	28	0			
	2330	"	1014.5	999.9	...	20.6	19.0	18.0	21.3	85	...	1.6	...	1.4	0	0	9	3	1	1	0	0	0	0	3	21	0			
Suri	0830	77	1016.2	1007.3	...	23.9	19.6	16.9	19.1	65	...	1.4	...	5.6	0	0	25	9	6	2	0	0	0	0	2	6	5	0		
	1730	"	1013.3	1004.5	...	25.7	20.4	16.9	19.7	59	...	1.9	...	2.4	0	0	23	2	4	5	2	0	0	2	4	7	0			
Berhampore	0830	19	1015.6	1013.4	-0.1	23.2	20.3	18.9	21.5	76	+1	0.8	-1.0	0	0	0	0	0	0	0	0	0	0	0	0	30	0			
	1730	"	1011.9	1009.8	...	26.4	21.3	18.2	21.2	61	...	0.4	...	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0		
Orissa Baripada	0830	54	1016.5	1010.2	...	22.6	19.6	17.6	20.3	74	...	3.1	...	3.0	0	0	21	13	0	0	0	0	0	0	2	1	5	9	0	
	1730	"	1012.8	1006.6	...	25.3	21.0	18.4	21.4	66	...	2.4	...	0.6	0	0	6	3	0	0	1	0	0	1	0	1	24	0		
Balasore	0830	20	1015.3	1013.0	0	24.2	21.0	19.1	22.0	74	+3	3.8	+1.6	5.7	0	0	29	18	6	0	0	0	0	0	5	1	0	0		
	1730	"	1012.1	1009.8	...	25.2	22.0	20.2	23.6	74	...	4.1	...	1.0	0	0	7	1	3	0	2	1	0	0	0	23	0			
Chandbali (R)	0830	6	1014.8	1014.1	-0.1	24.9	22																							

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—NOVEMBER, 1958 (KARTIKA 10—AGRAHAYANA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer Centimetre above mean sea level in metres	Mean pressure in millibars												Mean temperature in °C.												Cloud amount (Octas)												Wind speed (km. p.h.)												No. of observations																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
At mean sea level or height in grams of standard barometric level				At station level				Departure from normal				Dry bulb				Wet bulb				Dew point				Vapour pressure in millibars				Relative humidity %				Departure from normal				Mean amount				Departure from normal				Mean wind speed, km. per hour				62 or more				20 to 61				1 to 19				N				NE				E				SE				S				SW				W				NW				Calm				Variable																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	8010	8011	8012	8013	8014	8015	8016	8017	8018	8019	8020	8021	8022	8023	8024	8025	8026	8027	8028	8029	8030	8031	8032	8033	8034	8035	8036	8037	8038	8039	8040	8041	8042	8043	8044	8045	8046	8047	8048	8049	8050	8051	8052	8053	8054	8055	8056	8057	8058	8059	8060	8061	8062	8063	8064	8065	8066	8067	8068	8069	8070	8071	8072	8073	8074	8075	8076	8077	8078	8079	8080	8081	8082	8083	8084	8085	8086	8087	8088	8089	8090	8091	8092	8093	8094	8095	8096	8097	8098	8099	80100	80101	80102	80103	80104	80105	80106	80107	80108	80109	80110	80111	80112	80113	80114	80115	80116	80117	80118	80119	80120	80121	80122	80123	80124	80125	80126	80127	80128	80129	80130	80131	80132	80133	80134	80135	80136	80137	80138	80139	80140	80141	80142	80143	80144	80145	80146	80147	80148	80149	80150	80151	80152	80153	80154	80155	80156	80157	80158	80159	80160	80161	80162	80163	80164	80165	80166	80167	80168	80169	80170	80171	80172	80173	80174	80175	80176	80177	80178	80179	80180	80181	80182	80183	80184	80185	80186	80187	80188	80189	80190	80191	80192	80193	80194	80195	80196	80197	80198	80199	80200	80201	80202	80203	80204	80205	80206	80207	80208	80209	80210	80211	80212	80213	80214	80215	80216	80217	80218	80219	80220	80221	80222	80223	80224	80225	80226	80227	80228	80229	80230	80231	80232	80233	80234	80235	80236	80237	80238	80239	80240	80241	80242	80243	80244	80245	80246	80247	80248	80249	80250	80251	80252	80253	80254	80255	80256	80257	80258	80259	80260	80261	80262	80263	80264	80265	80266	80267	80268	80269	80270	80271	80272	80273	80274	80275	80276	80277	80278	80279	80280	80281	80282	80283	80284	80285	80286	80287	80288	80289	80290	80291	80292	80293	80294	80295	80296	80297	80298	80299	80300	80301	80302	80303	80304	80305	80306	80307	80308	80309	80310	80311	80312	80313	80314	80315	80316	80317	80318	80319	80320	80321	80322	80323	80324	80325	80326	80327	80328	80329	80330	80331	80332	80333	80334	80335	80336	80337	80338	80339	80340	80341	80342	80343	80344	80345	80346	80347	80348	80349	80350	80351	80352	80353	80354	80355

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—NOVEMBER, 1958 (KARTIKA 10—AGRAHAYANA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Cloud amount (Octas)			Wind speed (Km. p.h.)			No. of observations														
															Wind direction														
			At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Dry bulb	Wet bulb	Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Mean amount	Departure from normal	Mean wind speed, km. per hour.	62 or more	20 to 61	1 to 19	N	NE	E	SE	S	SW	W	NW	Calm	Variable		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28		
Bihar—Contd. Gaya . . .	0230	116	1014.6	1001.0	...	17.0	16.4	15.8	18.3	94	...	0.8	...	2.0	0	0	15	1	1	0	5	6	2	0	0	15	0		
	0530	"	1014.9	1001.3	...	15.6	15.3	14.9	17.8	96	4.	1.0	...	2.8	0	0	16	0	1	0	3	9	3	0	0	14	0		
	0830	"	1017.0	1003.5	+1.0	21.1	18.5	16.9	20.2	77	+13	1.2	0	3.2	0	0	20	0	1	1	1	3	13	0	1	10	0		
	1130	"	1015.6	1002.4	...	27.3	20.7	16.4	18.7	53	...	0.8	...	7.7	0	0	28	4	4	8	2	0	1	3	6	2	0		
	1730	"	1013.1	999.8	...	25.1	20.0	16.8	19.5	60	...	1.4	...	3.9	0	0	21	4	11	1	0	0	0	0	5	9	0		
	2330	"	1015.3	1001.8	...	18.5	17.3	16.3	19.0	87	...	0.8	...	1.3	0	0	10	0	0	0	1	5	3	1	0	20	0		
Jamui . . .	0330	82	1016.5	1007.1	...	20.6	18.5	16.9	20.0	79	...	1.0	...	3.3	0	0	20	0	0	7	6	0	0	1	6	10	0		
	1730	"	1012.6	1003.1	...	25.9	21.0	17.9	20.7	62	...	0.6	...	1.4	0	0	12	0	0	1	0	0	0	0	11	18	0		
Dumka . . .	0830	149	1016.3	999.2	+0.6	24.5	19.3	16.1	18.1	60	-7	1.0	-0.2	3.0	0	0	25	4	3	9	1	0	1	3	4	5	0		
Bhagalpur . . .	0530	49	1014.5	1008.8	...	18.7	17.5	16.8	19.3	89	...	0.9	...	1.7	0	0	14	0	2	1	1	0	3	4	3	16	0		
	0830	"	1016.6	1011.0	...	22.1	19.3	17.5	20.2	75	...	1.0	...	2.4	0	0	20	1	2	2	1	0	3	6	5	10	0		
	1130	"	1015.3	1009.8	...	26.1	20.4	17.0	19.7	58	...	1.7	...	4.6	0	0	27	2	4	5	0	0	0	5	11	3	0		
	1730	"	1012.9	1007.3	...	25.2	21.0	18.4	21.6	67	...	1.0	...	2.6	0	0	19	5	3	0	0	0	4	2	5	11	0		
	2330	"	1014.8	1009.2	...	21.1	19.0	17.5	20.5	81	...	0.6	...	2.0	0	0	14	0	1	2	1	0	5	3	2	16	0		
	0830	37	1016.5	1012.1	+1.1	22.5	19.8	18.2	20.7	77	+1	1.4	0	2.7	0	0	23	1	2	2	1	1	7	6	3	7	0		
Uttar Pradesh (East) Gonda . . .	1730	"	1012.6	1008.3	...	24.7	21.8	19.8	24.1	76	...	1.6	...	0.6	0	0	6	2	0	0	0	0	0	0	4	24	0		
	0830	110	1016.9	1004.1	...	18.9	16.6	14.8	17.2	78	+3	0.1	-0.8	1.0	0	0	10	1	0	0	0	0	0	0	2	7	20	0	
	1730	"	1013.3	1000.7	...	23.0	18.1	14.2	16.3	59	...	0.1	...	0.2	0	0	2	0	0	0	0	0	0	0	2	0	28	0	
	0830	99	1017.0	1005.4	...	19.3	17.7	16.7	19.0	84	...	0.6	...	3.4	0	0	22	1	1	8	8	0	1	1	2	8	0		
	1730	"	1013.2	1001.9	...	24.1	19.6	16.2	19.0	61	...	0.2	...	1.0	0	0	8	0	0	2	2	0	2	2	0	22	0		
	0830	77	1016.2	1007.1	+0.4	23.2	18.4	14.7	17.6	60	-13	0.1	-0.5	1.1	0	0	11	0	0	0	0	0	0	0	0	11	0		
Gorakhpur (P.B.O.) . . .	1730	"	1012.8	1003.8	...	24.5	18.8	14.9	16.7	55	...	0	...	0.2	0	0	2	0	0	0	0	0	0	0	0	0	28	0	
	0230	78	1013.9	1004.8	...	17.3	15.9	14.9	16.9	85	...	0.2	...	1.1	0	0	8	3	0	0	0	0	0	0	1	3	22	0	
	0530	"	1014.3	1005.1	...	16.0	15.0	14.2	16.2	89	...	0.3	...	1.6	0	0	12	3	2	0	0	0	0	0	1	2	4	18	0
	1130	"	1015.5	1006.6	...	27.1	19.4	14.2	16.3	45	...	0.8	...	4.9	0	0	30	2	1	0	3	7	10	2	5	0	0		
	2330	"	1014.8	1005.6	...	18.6	16.9	15.7	17.6	83	...	0.3	...	1.2	0	0	9	3	0	0	0	0	0	0	0	3	21	0	
	0830	78	1016.2	1006.9	...	19.9	17.6	16.0	18.6	79	...	0.1	...	0	0	0	29	0	0	0	8	0	0	0	0	0	21	0	
Azamgarh . . .	1730	"	1012.8	1003.9	...	23.9	20.7	18.7	21.5	72	...	0	...	0	0	0	1	0	0	0	0	0	0	0	1	0	29	0	
	0830	64	1016.9	1009.4	...	19.3	16.9	15.5	17.9	77	...	0.5	...	1.3	0	0	11	1	1	1	0	0	0	0	0	2	6	0	
Ballia . . .	1730	"	1013.0	1005.8	...	27.2	19.8	15.1	16.9	47	...	0.6	...	1.5	0	0	13	4	1	0	0	1	0	0	0	3	4	17	0
	0830	64	1016.9	1009.4	...	19.3	16.9	15.5	17.9	77	...	0.5	...	1.3	0	0	11	1	1	1	0	0	0	0	0	2	6	0	
Varanasi (Banaras) . . .	1730	"	1016.3	1007.4	+0.2	20.8	17.3	14.7	17.0	68	0	1.2	+0.2	4.4	0	0	18	2	1	0	3	2	8	1	1	12	0		
	0830	76	1012.6	1003.9	...	25.2	19.0	14.2	16.9	54	...	1.0	...	3.3	0	0	20	2	0	2	0	1	4	4	7	10	0		
	1730	"	1012.6	1003.9	...	25.2	19.0	14.2	16.9	54	...	1.0	...	3.3	0	0	20	2	0	2	0	1	4	4	7	10	0		
	0530	85	1015.9	1005.7	...	14.7	13.8	13.1	14.9	91	...	0.5	...	1.3	0	0	12	1	1	1	0	0	3	5	2	0	13	0	
	0830	"	1017.7	1007.7	...	20.4	17.3	15.2	17.5	72	...	0.9	...	4.3	0	0	25	0	1	1	1	1	1	1	2	12	4	5	0
	1130	"	1016.7	1006.9	...	26.8	19.2	13.9	16.1	46	...	0.9	...	5.5	0	0	28	1	7	2	2	3	6	5	2	0	10	9	2
Allahabad (Bainrauli) . . .	1730	"	1014.0	1004.2	...	25.0	18.8	14.5	16.9	53	...	0.7	...	2.8	0	0	21	2	1	1	1	0	4	0	0	10	9	2	
	2330	"	1016.2	1006.1	...	16.9	15.4	14.2	16.2	84	...	0.2	...	1.1	0	0	9	1	0	2	1	0	1	0	1	2	21	0	
	0230	98	1014.6	1003.0	...	16.5	14.5	12.5	15.2	80	...	0.3	...	1.3	0	0	12	2	1	0	0	0	0	0	4	3	2	18	0
	0530	"	1015.0	1003.4	...	15.6	13.7	12.3	14.0	84	...	0.5	...	1.5	0	0	11	0	0	0	0	0	0	0	4	6	1	19	0
	0830	"	1016.9	1005.5	+0.8	20.5	16.3	13.3	15.3	63	-4	1.2	+0.1	2.5	0	0	16	1	0	1	1	1	3	9	0				

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—NOVEMBER, 1958 KARTIKA 10—AGRAHAYANA 9, 1880 SAKA

Division and station		Hour of observation I.S.T.		Mean pressure in millibars				Mean temperature in °C				Cloud amount (Oktas)				Wind speed (km. p.h.)				No. of observations											
				At mean sea level or height in g.p.m. of nearest standard isobaric level	cistern above mean sea level in metres	At station level	Departure from normal	Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Mean amount	Mean	wind speed, km. per hour	20 to 61	1 to 19	N	NE	E	SE	S	SW	W	NW	Calm	Variable			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28				
<u>Uttar Pradesh (East)</u> Contd.																															
Hardoi	• • •	0830	142	1016.7	1000.0	...	17.2	15.1	13.5	15.3	79	...	0.5	...	2.1	0	0	15	0	0	0	0	0	1	7	8	15	0			
		1730	"	1013.0	996.7	...	24.2	18.6	14.8	16.6	56	...	0.4	...	0.8	0	0	6	0	0	0	0	0	1	1	4	24	0			
Lakhimpur Kheri	•	0830	147	1015.9	998.7	...	18.1	15.9	14.1	15.9	79	...	0	...	0.1	0	0	1	0	0	0	0	0	0	1	0	29	0			
		1730	"	1012.5	995.8	...	23.3	18.8	15.8	18.2	63	...	0	...	0	0	0	0	0	0	0	0	0	0	0	0	30	0			
Bahraich	• • •	0830	124	1015.9	1001.5	+0.4	20.8	17.2	14.6	16.4	68	-5	0.5	-0.1	1.5	0	0	14	2	0	2	1	1	0	5	3	16	0			
		1730	"	1012.9	998.7	...	24.1	18.8	15.2	17.2	58	...	0.6	...	0.6	0	0	6	0	0	0	0	0	0	6	0	24	0			
<u>Uttar Pradesh (West)</u>																															
Orai	• • •	0830	141	1018.1	1001.7	...	21.8	16.2	11.6	13.8	54	...	0	...	2.8	0	0	18	3	0	0	0	0	1	1	1	12	12	0		
		1730	"	1013.3	997.3	...	26.8	18.1	12.3	14.8	42	...	0.4	...	2.9	0	0	27	9	2	0	0	0	1	0	0	15	3	0		
Jhansi	• • •	0830	251	1017.3	988.1	+0.4	18.9	14.9	11.7	13.9	64	+13	0.9	+0.1	1.1	0	0	9	7	0	0	0	0	0	1	1	21	0			
		1730	"	1013.4	985.1	...	26.7	18.5	12.5	14.9	41	...	0.8	...	1.8	0	0	16	1	2	2	0	0	0	0	0	11	14	0		
Agra	• • •	0830	169	1017.5	997.8	+1.2	19.2	14.7	10.5	12.9	59	+5	0.2	-0.6	0.2	0	0	4	0	0	0	0	0	0	0	0	1	28	0		
		1730	"	1013.7	994.6	...	26.0	17.3	9.5	13.0	35	...	0.5	...	0.4	0	0	10	1	1	0	0	0	0	0	0	3	26	0		
Agra (Aerodrome)	0530	169	1015.8	995.7	...	12.8	11.8	10.9	13.3	89	...	0.5	...	...	0	0	4	0	0	0	0	0	0	0	0	3	1	26	0
		0830	"	1017.2	997.5	...	18.1	15.1	13.1	14.3	72	...	1.2	...	...	0	0	25	3	1	1	1	1	1	1	4	13	5	0
		1130	"	1016.6	997.4	...	26.5	17.4	11.5	13.2	40	...	1.0	...	...	0	0	12	2	1	0	0	0	0	0	2	8	17	0
		1730	"	1013.9	994.5	...	23.5	16.6	12.2	13.2	49	...	1.0	0	1	12	2	1	0	0	0	0	0	0	2	0	28	0	
Mainpuri	• • •	0830	157	1016.5	998.2	+0.5	18.4	15.1	12.3	14.4	69	+8	0	-0.8	1.6	0	0	16	0	0	0	0	0	0	0	13	3	14	0		
		1730	"	1013.1	995.0	...	25.3	19.1	14.8	16.9	54	...	0.2	...	0.6	0	0	6	0	0	0	0	0	0	0	6	0	24	0		
Aligarh	• • •	0830	187	1017.0	995.0	...	17.2	13.6	10.5	12.7	65	+15	0.4	-0.2	1.0	0	0	10	1	0	0	0	0	1	0	7	1	20	0		
		1730	"	1014.0	992.5	...	24.4	17.6	12.2	14.4	46	...	1.0	...	1.3	0	0	11	4	0	0	0	0	0	0	0	7	0	19	0	
Bareilly	• • •	0830	173	1016.5	996.3	...	18.1	15.5	13.6	15.3	75	+1	0.4	-0.3	1.1	0	0	10	0	2	4	0	0	0	0	0	2	2	20	0	
		1730	"	1012.8	993.0	...	23.2	17.2	12.6	15.3	52	...	0.5	...	0.6	0	0	5	0	0	0	0	0	0	0	0	2	3	25	0	
Bareilly (P. B. O.)	0230	172	1014.4	994.2	...	16.3	14.2	12.7	14.1	80	...	0.1	...	1.1	0	0	9	0	0	1	0	0	0	0	0	7	1	21	0		
		0530	"	1014.6	994.4	...	15.5	13.9	12.9	14.5	84	...	0.6	...	2.9	0	0	16	2	1	3	0	0	0	0	1	9	14	0		
		1130	"	1016.0	996.2	...	23.7	18.8	16.1	17.8	63	...	0.5	...	5.6	0	0	27	0	1	4	2	0	0	0	3	17	3	0		
		2330	"	1015.0	994.9	...	17.7	15.0	13.3	14.8	75	...	0.2	...	0.9	0	0	8	0	1	1	0	0	0	0	4	2	22	0		
Meerut	• • •	0830	222	1017.5	991.5	+1.4	17.9	13.9	10.5	12.7	62	-6	0.3	-0.3	1.9	0	0	10	0	0	5	1	0	0	4	0	20	0			
Najibabad	• • •	0830	270	1017.1	985.3	...	14.2	13.1	12.1	13.9	87	...	0.5	...	1.2	0	0	12	0	4	1	5	0	0	0	0	2	18	0		
		1730	"	1013.9	983.3	...	23.9	17.8	13.4	15.4	53	...	0.5	...	0.6	0	0	7	0	0	0	1	0	0	0	6	23	0			
Roorkee	• • •	0830	274	1017.1	985.0	+0.8	15.7	13.8	11.9	14.0	79	+3	2.0	+1.3	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0		
		1730	"	1013.6	982.3	...	22.3	16.6	12.3	14.5	54	...	2.4	...	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	
Dehra Dun	• • •	0530	682	1016.2	937.7	...	13.0	10.8	9.0	11.1	78	...	0.7	...	3.6	0	0	18	9	7	0	0	0	0	0	0	2	12	0		
		0830	"	1017.0	939.4	+1.1	16.6	12.9	10.0	12.4	65	-7	1.4	+0.3	0.8	0	0	8	2	1	0	0	0	0	0	0	3	0	22	0	
		1130	"	1015.7	939.8	...	22.4	15.5	10.6	12.3	47	...	1.1	...	4.4	0	0	26	2	1	0	2	5	10	5	1	4	0			
		1730	"	1013.6	937.3	...	20.6	16.4	13.8	15.6	65	...	1.6	...	0.2	0	0	2	1	0	0	1	0	0	0	0	0	0	28	0	
		2330	"	1016.3	938.4	...	15.0	12.4	10.1	12.7	73	...	0.6	...	6.5	1	0	26	8	18	0	0	0	0	0	0	0	4	0		
Panjab (India) (Including Delhi)	New Delhi	• • •	0220	216	1015.5	990.0	...	14.9	12.1	9.6	12.0	71	...	0.4	...	4.0	0	0	18	2	0	0	0	0	0	0	6	10	12	0	
		0530	"	1015.8	990.2	...	13.8	11.3	8.7	11.5	72	...	0.4	...	4.3	0	0	20	4	0	0	0	0	0	0	5	11	10	0		
		0830	"	1017.5	992.0	+1.2	16.4	12.7	9.2	11.8	63	+13	0.7	+0.1	6.4	0	0	25	1	1	0	0	0	0	0	13	10	5	0		
		1130	"	1016.9	992.1	...	24.8	16.5	9.6	12.0	39	...	0.9	...	9.8	0	2	25	3	3	0	1	2	0	3	15	3	0			
		1730	"	1013.9	989.2	...	24.0	16.5	10.4	12.6	44	...	1.2	...	4.4	0	0	23	3	1	1	1	0	0	0	0	17	7	0		
Hissar	• • •	0530	221	1016.1	990.7	...	16.1	12.8	9.8	12.1	67	...	0.2	...	4.2	0	0	15	1	0	0	1	0	0	1	5	1	18	0		
		0830	"	1017.8	991.7	+1.1	13.7	11.1	8.8	11.3	70	+16	0.8	+0.2	1.6	0	0	13	1	0	0	3	1	5	3	0	17	0			
		1130	"	1017.5	992.3	...	25.9	16.1	7.4	10.5	32	...	1.1	...	2.9	0	0	20	4	1	1	2	1	2	2</						

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—NOVEMBER, 1958 (KARTIKA 10—AGRAHAYANA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.		Mean pressure in millirs	Mean temperature in °C					Cloud amount (Octas)			Wind speed (km. p.h.)										No. of observations														
	Hour	Height of barometer cistern above mean sea level in metres		At station level		Departure from normal	Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Mean amount	Departure from normal	Mean wind speed km. per hour	N		NE		E		SE		S		SW		W		NW		Calm		Variable		
				2	3		7	8	9	10	11					16	17	18	19	20	21	22	23	24	25	26	27	28								
1	2	3	4	5	6																															
Punjab (India) (Including Delhi)—Contd. Ambala (P. B. O.)—Contd.	1130	278	1016.6	984.8	...	23.1	15.9	10.6	12.1	46	...	0.9	...	7.8	0	0	28	3	0	1	8	1	0	2	13	2	0									
Ambala (Aerodrome)	2330	"	1015.6	983.2	...	16.5	12.5	9.2	11.1	63	...	0.7	...	6.8	0	0	23	1	2	1	0	0	1	4	14	7	0									
Chandigarh	0530	273	1015.4	982.9	...	10.3	9.5	3.5	11.1	89	...	0.6	...	...	0	0	5	0	0	1	0	0	0	0	2	25	0							
Ludhiana	0830	"	1017.2	984.8	...	15.2	12.4	10.3	13.0	77	...	1.1	...	...	0	5	20	0	0	0	4	5	0	0	5	11	5	0						
Ferozepur	0830	247	1017.6	988.7	+1.4	18.1	14.1	10.2	13.0	59	-5	0.7	-0.3	2.4	0	0	21	0	4	0	3	0	1	10	3	9	0									
Amritsar	0830	200	1017.4	993.7	...	14.3	12.4	10.1	13.1	79	...	1.2	...	0.3	0	0	3	1	2	0	0	0	0	0	0	27	0									
Pathankot	0830	344	1017.5	977.3	...	15.2	12.2	9.4	11.5	69	...	2.7	...	0.8	0	0	8	0	2	2	3	0	0	1	0	22	0									
Pathankot (Aerodrome)	0830	312	1017.4	980.9	...	15.1	12.7	10.7	12.5	75	...	2.3	...	2.4	0	0	21	3	6	1	0	1	4	6	0	9	0									
Himachal Pradesh Bilaspur	0830	493	1019.8	961.5	...	9.8	9.4	9.2	11.7	96	...	4.5	...	0.5	0	0	5	0	1	0	0	1	1	1	1	25	0									
Mandi	0830	761	1019.8	931.5	...	9.6	9.1	8.5	11.0	94	...	1.8	...	0.8	0	0	8	0	0	0	0	1	1	3	3	22	0									
Jammu and Kashmir Srinagar	0530	1587	1546.7	846.2	...	2.2	1.8	1.4	6.5	94	...	2.1	...	1.6	0	0	12	0	1	0	3	1	1	1	1	20	0									
Galgang	0830	2655																																		
Leh	0530	3514	3130.3	667.8	...	-5.2	-8.2	-16.3	1.6	37	...	1.5	...	4.9	0	0	24	11	12	1	0	0	0	0	0	5	0									
Skardu (R)	0830	1730	1491																																	
Gilgit (R)	0830	1730	3106																																	
Jammu	0830	...	...	...	...	15.3	12.2	9.3	11.7	68	+12	2.7	+1.7	..	0	0	30	4	22	0	0	0	0	0	4	0	0					
Rajasthan (West) Sri Ganganagar	0830	177	1015.9	994.8	...	12.8	10.7	8.5	11.0	76	...	0.7	...	0.6	0	0	5	0	0	2	3	0	0	0	0	25	0									
Churu	0830	291	1017.4	996.4	...	13.9	11.2	8.9	11.0	70	+15	1.2	+0.6	0.8	0	0	8	0	1	2	3	1	0	0	1	22	0									
Bikaner	0830	224	1017.4	997.2	...	24.6	15.8	8.0	10.5	36	...	1.1	...	1.9	0	0	16	2	2	3	2	0	2	3	14	0										
Bikaner (P.B.O.)	0530	224	1015.8	989.1	...	25.0	17.1	11.0	13.4	43	...	1.0	...	0.1	0	0	1	0	1	0	0	0	0	0	0	29	0									
Jaisalmer	0830	242	1016.4	988.3	...	18.6	12.4	5.7	9.6	48	...	1.0	...	5.9	0	0	22	0	8	1	5	6	2	0	0	0	0	0	20	0						
Phalodi	0830	234	1016.9	989.5	...	17.4	14.0	11.1	13.2	68	...	1.1	...	6.2	0	2	19	2	3	1	8	5	1	0	1	1	2	4	0							
1730	"	1014.0	987.7	...	28.2	22.0	18.7	21.8	59	...	1.1	...	7.9	0	0	26	9	6	1	5	1	1	1	2	4	0										

(R) Register not received.

†Observations for 29 days.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—NOVEMBER, 1958 (KARTIKA 10—AGRAHAYANA 9, 1880 SAKA) 579

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—NOVEMBER, 1958 (KARTIKA 10—AGRAHAYANA 9, 1880 SAKA)

Division and station	Hour of observation L.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mb.	Relative humidity %	Cloud amount (Octas)	Wind speed (km. p.h.)	No. of observations																
			At mean sea level or height in gpm. of nearest standard isobaric level			At station level							Wind direction																
			5	6	7	8	9	10					19	20	21	22	23	24	25	26	27	28							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28		
Madhya Pradesh (West)																													
—Contd.	Guna—Contd.	1130	478	1015.4	962.1	...	25.6	16.9	10.8	13.0	40	...	1.5	...	5.2	0	0	26	3	9	4	7	0	0	1	2	4	0	
		1730	"	1012.5	959.3	...	25.5	16.9	10.7	12.9	40	...	1.8	...	4.5	0	0	27	15	5	4	0	1	0	0	0	26	0	
Rajgarh	0830	382	1016.4	961.0	...	15.1	12.2	9.8	12.2	71	...	0.9	...	0.6	0	0	4	0	0	2	2	0	0	0	0	0	0	0	
	1730	"	1012.2	969.7	...	27.3	20.9	16.7	19.6	54	...	0.8	...	1.2	0	0	10	2	11	2	1	2	0	0	0	0	0	4	0
Neemuch	0830	496	1017.6	961.1	+1.1	19.6	13.0	6.9	10.2	45	-3	1.8	+0.8	3.5	0	0	25	0	16	9	0	0	0	0	0	0	5	0	
	1730	"	1013.3	958.3	...	26.3	15.7	6.7	9.9	31	...	1.5	...	5.7	0	0	29	2	22	5	0	0	0	0	0	0	0	1	0
Ratlam	0830	486	1016.3	960.5	...	17.8	13.8	10.4	12.9	63	...	1.9	...	7.9	0	0	24	1	15	8	0	0	0	0	0	0	6	0	
	1730	"	1011.8	958.1	...	27.5	18.5	11.9	14.7	41	...	2.5	...	9.8	0	1	25	0	21	5	0	0	0	0	0	0	4	0	
Alirajpur	0830	293	1016.2	982.7	...	19.9	15.9	12.6	15.0	64	...	1.5	...	3.7	0	0	20	0	0	20	0	0	0	0	0	0	0	10	0
	1730	"	1011.4	978.8	...	29.0	19.5	12.5	14.9	38	...	1.5	...	4.3	0	0	22	4	5	8	2	1	0	0	0	0	0	8	0
Indore	0530	567	1015.1	950.0	...	14.9	12.2	9.8	12.2	72	...	1.1	...	3.5	0	0	16	0	7	8	0	1	0	0	0	0	0	14	0
	0830	"	1016.1	951.9	+0.2	19.8	14.7	10.7	13.3	57	+5	1.7	+0.5	5.2	0	0	21	0	7	11	2	0	0	0	0	0	0	9	1
	1130	"	1014.3	951.5	...	26.2	17.4	10.6	12.8	40	...	2.2	...	11.8	0	2	28	0	1	16	7	3	2	0	1	0	0	0	0
	1730	"	1011.6	948.9	...	26.1	17.2	10.2	13.2	40	...	2.5	...	9.6	0	0	30	2	16	9	1	1	0	0	0	0	0	13	0
Bhopal (Bairagarh)	0230	523	1014.8	954.8	...	16.4	12.4	9.0	11.6	62	...	1.0	...	6.7	0	0	27	4	16	4	2	1	0	0	0	0	0	3	0
	0530	"	1015.4	955.3	...	15.5	12.0	8.9	11.3	65	...	1.2	...	5.8	0	0	25	4	16	3	2	0	0	0	0	0	5	0	
	0830	"	1016.4	957.2	+0.5	20.6	14.2	9.1	11.5	48	-8	1.4	0	8.6	0	0	25	0	15	6	4	0	0	0	0	0	5	0	
	1130	"	1014.7	956.6	...	25.7	16.5	9.6	11.3	37	...	1.3	...	13.7	0	3	27	0	10	12	6	1	1	0	0	0	0	8	0
	1730	"	1012.2	954.2	...	25.3	16.3	9.4	12.1	37	...	1.6	...	9.4	0	0	30	5	22	3	0	0	0	0	0	0	0	0	
	2330	"	1015.4	955.8	...	18.3	13.4	9.2	11.8	57	...	1.0	...	6.8	0	0	22	3	18	1	0	0	0	0	0	0	0	8	0
Khandwa	0830	318	1015.9	979.4	+0.3	21.2	16.5	12.7	14.9	60	+2	1.7	+0.3	3.8	0	0	27	0	17	6	4	0	0	0	0	0	3	0	
	1730	"	1011.3	975.8	...	28.1	18.7	11.6	13.9	39	...	3.1	...	6.6	0	0	29	11	16	0	2	0	0	0	0	0	0	1	0
Hoshangabad	0830	302	1016.8	981.9	+0.2	20.8	15.7	11.4	13.8	55	-6	1.4	0	4.0	0	0	22	3	15	1	0	0	0	0	0	0	8	0	
	1730	"	1012.1	978.3	...	26.6	19.1	13.7	15.9	46	...	1.8	...	1.9	0	0	19	14	1	4	0	0	0	0	0	0	0	11	0
Betul	0830	653	1016.0	942.5	...	20.1	16.2	13.4	15.6	66	...	2.4	...	3.3	0	0	23	0	3	13	6	1	0	0	0	0	0	7	0
	1730	"	1011.7	939.5	...	24.1	17.8	13.1	15.4	52	...	3.3	...	6.4	0	0	30	9	16	1	0	0	0	0	0	0	1	0	
Chhindwara	0830	685	1015.9	939.1	...	20.4	15.8	12.4	14.7	61	...	3.0	...	6.0	0	0	24	3	15	3	2	1	0	0	0	0	6	0	
	1730	"	1011.6	936.2	...	24.5	17.2	11.6	14.4	47	...	3.7	...	6.4	0	0	30	2	11	6	2	2	3	2	2	0	0	0	
Seoni	0830	619	1015.6	946.3	+0.4	21.4	16.6	13.6	15.3	61	+4	2.7	+1.2	2.4	0	0	18	3	9	6	0	0	0	0	0	0	12	0	
	1730	"	1011.4	943.0	...	24.3	17.6	12.9	15.4	50	...	3.4	...	2.4	0	0	20	4	12	3	0	1	0	0	0	0	0	10	0
Sagar.	0830	551	1016.1	953.7	+0.3	20.7	14.1	8.5	11.5	46	-1	1.2	-0.1	5.3	0	0	27	0	11	12	2	1	0	0	0	0	1	3	0
	1730	"	1012.2	951.0	...	24.6	16.0	9.5	11.9	38	...	1.7	...	4.0	0	0	30	3	13	11	0	0	0	0	0	0	1	2	0
Nowrang	0830	229	1017.6	990.9	+1.0	16.7	14.2	12.0	14.2	74	+3	1.0	-0.2	2.5	0	0	22	2	2	0	0	0	0	0	0	7	9	1	
	1730	"	1013.4	987.6	...	25.7	18.3	13.4	15.2	47	...	0.9	...	0.4	0	0	4	2	2	0	0	0	0	0	0	0	0	26	0
Madhya Pradesh (East)	0530	317	1015.6	978.4	...	14.1	12.8	11.7	13.7	86	...	1.1	...	0.1	0	0	1	1	0	0	0	0	0	0	0	0	0	29	0
	0330	"	1016.8	980.3	+0.7	19.8	15.6	12.2	14.4	61	-1	1.3	-0.1	1.1	0	0	10	0	0	1	0	2	1	5	1	20	0		
	1130	"	1015.3	979.6	...	26.3	17.4	10.2	12.5	36	...	1.4	...	4.4	0	0	26	2	2	8	4	0	2	4	4	4	0		
	1730	"	1012.7	976.9	...	24.7	17.6	12.0	15.1	45	...	1.7	...	1.5	0	0	14	6	1	0	0	0	0	0	0	0	16	0	
	2330	"	1015.5	978.8	...	17.5	14.5	11.8	13.9	70	...	1.0	...	0.1	0	0	1	1	0	0	0	0	0	0	0	0	0	29	0
Sidhi	0830	...	...	...	...	19.3	15.8	13.1	15.2	68	...	1.0	...	2.1	0	0	18	1	2	1	1	0	0	5	6	2	12	0	
	1730	...	...	...	...	25.5	18.3	12.5	15.3	46	...	1.6	...	1.7	0	0	17	6	2	4	0	2	0						

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—NOVEMBER, 1958 (KARTIKA 10—AGRAHAYANA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer in centimetres above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Cloud amount (Oktas)			Wind speed (km. p.h.)	No. of observations																													
			At mean sea level			At mean height in g.p.m. of standard isobaric level			Departure from normal				Mean amount		Departure from normal		N			NE			E			SE			S			SW			W			NW			Calm	Variable
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28												
Madhya Pradesh (East) —Contd.																																										
Champa . . .	0830	245	1016.1	987.9	...	21.4	18.3	16.1	18.5	73	...	2.7	...	3.4	0	0	25	20	1	2	1	0	0	0	0	1	5	0														
	1730	"	1011.8	984.5	...	26.7	20.2	16.2	18.4	53	...	2.7	...	2.5	0	0	23	14	2	5	0	0	0	0	0	2	7	0														
Raigarh . . .	0830	220	1015.5	990.3	...	23.1	19.2	16.5	19.1	67	...	3.1	...	4.7	0	0	30	0	25	2	3	0	0	0	0	0	6	5	0													
	1730	"	1011.3	986.5	...	27.3	21.5	17.7	20.9	58	...	3.0	...	2.9	0	0	25	3	7	4	4	1	0	0	0	0	0	0	0													
Raipur . . .	0530	298	1013.7	979.4	...	19.3	17.7	16.7	18.4	85	...	3.2	...	3.3	0	0	20	12	6	0	1	0	0	0	0	1	10	0														
	0830	"	1015.4	982.3	+0.8	21.9	19.2	16.5	19.6	73	+8	3.5	+1.8	5.3	0	0	28	11	10	4	1	0	0	0	0	2	2	0														
	1130	"	1014.0	980.6	...	26.9	20.2	15.7	18.3	52	...	3.7	...	7.6	0	0	28	5	10	10	2	0	0	0	0	1	2	0														
	1730	"	1011.8	977.6	...	26.3	20.2	15.9	18.4	55	...	4.4	...	4.3	0	0	23	5	13	5	2	0	0	0	0	0	5	0														
Kanker . . .	2330	"	1013.9	979.5	...	22.0	19.0	16.9	20.5	74	...	2.9	...	2.7	0	0	0	17	2	9	4	1	0	1	0	0	0	13	0													
	0830	402	1015.3	969.6	+0.1	21.1	19.1	17.9	20.5	81	+5	3.2	+0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0													
Jagdalpur (P. B. O.) .	0830	553	1013.3	950.7	...	18.2	17.6	17.2	19.8	94	...	4.0	...	1.2	0	0	8	1	4	1	0	0	0	0	0	0	2	22	0													
	0830	"	1014.5	952.4	0	21.2	18.8	17.6	20.2	80	+1	3.7	+0.9	2.2	0	0	14	1	9	3	0	0	0	0	0	1	16	0														
	1130	"	1012.5	951.5	...	26.0	20.2	16.9	19.5	57	...	4.6	...	6.2	0	0	21	5	13	3	1	0	0	0	0	0	8	0														
	1730	"	1010.9	949.6	...	24.3	20.4	18.4	21.6	70	...	4.8	...	3.0	0	0	21	4	12	2	0	1	1	0	0	1	9	0														
Gujarat Deesa . . .	2330	"	1013.7	951.4	...	20.0	18.6	17.9	20.4	88	...	3.8	...	1.0	0	0	7	1	4	2	0	0	0	0	0	0	23	0														
	0830	136	1015.6	999.7	+0.2	20.7	15.1	10.1	12.7	52	...	2.0	...	5.4	0	0	30	4	16	8	2	0	0	0	0	0	0	0	0													
Idar . . .	1730	"	1012.0	996.7	...	29.6	18.4	8.8	12.2	30	...	2.0	...	5.5	0	0	30	8	7	0	8	3	1	1	2	0	0	0	0	0												
	0830	219	1015.3	990.3	...	24.0	15.5	7.2	10.7	36	...	1.7	...	5.0	0	0	27	4	15	7	1	0	0	0	0	0	3	0														
Ahmedabad . . .	1730	"	1012.0	987.4	...	28.8	18.5	10.0	13.0	32	...	1.0	...	3.2	0	0	24	2	1	19	0	0	0	0	1	1	6	0														
	0230	55	1013.0	1006.6	...	19.0	15.9	13.2	15.6	70	...	1.2	...	7.4	0	0	26	1	18	6	0	1	0	0	0	0	4	0														
	0530	"	1013.1	1006.6	...	17.6	14.9	12.7	14.8	73	...	0.8	...	9.2	0	0	27	0	18	8	1	0	0	0	0	0	3	0														
	0830	"	1015.0	1008.6	-0.1	21.6	16.5	12.4	14.7	57	+2	1.7	+0.7	15.0	0	0	4	25	0	7	20	2	0	0	0	0	0	1	0													
Dohad . . .	1130	"	1015.0	1008.7	...	29.2	20.3	14.1	16.6	41	...	1.3	...	15.7	0	0	7	23	0	1	20	8	0	1	0	0	0	0	0													
	1730	"	1011.8	1005.6	...	30.3	21.0	14.6	17.3	40	...	1.2	...	6.7	0	0	25	3	9	9	2	1	0	0	0	1	5	0														
	2330	"	1013.7	1007.4	...	20.9	17.2	14.4	16.7	67	...	1.0	...	5.6	0	0	18	1	8	6	1	1	0	0	0	0	12	0														
	0830	333	1015.8	977.5	...	19.3	15.2	11.7	13.9	63	-1	1.0	-0.5	6.3	0	0	28	0	6	19	1	2	0	0	0	0	2	0														
Baroda . . .	1730	"	1011.2	974.2	...	28.5	19.1	11.7	14.4	37	...	1.2	...	8.0	0	0	27	3	13	7	1	0	2	1	0	0	3	0														
	0530	34	1012.6	1008.5	...	18.0	15.9	14.0	16.5	79	...	0.9	...	0.7	0	0	5	1	9	2	0	0	1	0	0	17	0															
	0830	"	1014.6	1010.5	...	22.1	17.7	14.4	16.7	62	-2	1.0	-0.1	0.3	0	0	2	0	3	3	1	0	0	0	0	1	22	0														
	1130	"	1014.4	1010.4	...	30.2	20.9	14.5	17.2	40	...	1.2	...	1.8	0	0	11	0	6	5	3	2	0	0	0	1	13	0														
Baroda (Aerodrome) .	1730	"	1011.2	1007.3	...	29.8	21.7	16.6	19.4	46	...	1.0	...	0.9	0	0	7	1	6	4	0	0	0	0	1	2	16	0														
	2330	"	1013.3	1009.2	...	20.8	17.7	15.6	17.8	73	...	1.1	...	1.0	0	0	8	0	12	1	1	0	0	0	1	0	15	0														
	0830	38	1014.7	1010.4	...	22.4	17.7	14.2	16.4	61	...	1.2	...	6.8	0	0	1	28	11	7	8	2	0	1	0	0	1	0	0	0												
	1130	"	1014.5	1010.2	...	30.4	20.9	14.5	17.1	39	...	1.2	...	11.6	0	0	3	27	0	5	17	5	1	1	0	0	0	17	0													
Broach . . .	1730	"	1011.3	1007.1	...	30.2	21.2	15.5	17.9	42	...	1.0	...	8.1	0	0	28	5	10	6	0	0	1	3	3	2	0															
	0830	17	1014.0	1011.9	...	21.3	17.5	14.5	16.9	66	...	1.5	...	4.3	0	0	30	1	11	0	14	0	4	0	1	0	0	0	0	0												
Surat . . .	1730	"	1010.6	1008.6	...	32.0	21.7	14.9	17.5	36	...	1.3	...	4.7	0	0	30	0	11	0	14	0	4	0	1	0	0	0	0	0												
	0530	12	1011.8	1010.4																																						

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—NOVEMBER, 1958 (KARTIKA 10—AGRAHAYANA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer datum above mean sea level in metres	Mean pressure in millibars		Mean temperature in °C				Cloud amount (Oktas)		Mean wind speed, knts. per hour	Wind speed (km. p. h.)	No. of observations																
			At mean sea level or eight in g. p. m. of nearest barometric level	At station level	Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Mean amount			N	NE	E	SE	S	SW	W	NW	Calm	Variable							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
Saurashtra and Kutch—Contd.																													
Mandvi . . .	0830	9	1012.0	1013.9	...	22.5	...	...	...	...	1.3	...	13.8	0	2	28	4	24	2	0	0	0	0	0	0	0	0	0
	1730	"	1014.9	1011.0	...	28.4	...	...	...	...	1.1	...	11.3	0	1	28	2	3	0	4	4	2	10	3	1	1		
Dwarka . . .	0830	11	1014.6	1013.3	-0.2	23.7	19.7	17.1	19.6	67	0	1.4	+0.1	9.3	0	0	27	2	18	6	1	0	0	0	0	3	0		
	1730	"	1011.9	1010.6	...	28.1	21.0	16.3	19.1	53	...	1.2	...	15.3	0	0	30	9	8	2	0	0	0	1	10	0	0		
Porbander . . .	0830	7	1013.9	1013.1	...	24.1	18.6	14.5	16.9	58	...	1.6	...	9.6	0	1	29	5	11	7	1	1	0	0	5	0	0		
	1730	"	1011.0	1010.2	...	29.9	23.5	20.1	23.7	58	...	1.4	...	14.5	0	0	30	3	2	0	0	1	2	6	16	0	0		
Porbander (Aerodrome)	0830	7	1014.1	1013.3	...	25.7	19.8	16.7	18.5	60	...	1.4	...	10.5	0	3	19	2	13	1	4	1	0	0	1	4	0		
Jamnagar . . .	0530	23	1012.7	1010.1	...	18.6	15.5	13.0	15.1	71	...	1.2	...	6.2	0	0	27	1	5	11	5	2	3	0	0	3	0		
	0830	"	1014.6	1012.0	-0.1	23.2	18.2	14.5	16.8	59	-4	1.6	+0.7	7.4	0	0	27	1	10	11	4	1	0	0	0	3	0		
	1130	"	1014.8	1012.2	...	29.2	20.0	13.3	15.9	39	...	1.2	...	14.3	0	5	25	6	20	3	0	0	0	1	0	0			
	1730	"	1011.3	1008.8	...	28.6	20.0	13.3	16.4	40	...	1.1	...	15.8	0	9	21	22	7	0	0	0	0	0	1	0	0		
Rajkot (Aerodrome)	0830	134	1011.6	999.2	0	22.9	16.6	11.1	13.8	50	-1	0.8	-0.3	8.6	0	1	23	1	12	5	4	1	0	0	1	6	0		
	1130	"	1014.1	999.1	...	30.9	19.2	9.9	12.8	29	...	0.6	...	15.8	0	7	22	1	13	10	3	0	2	0	0	1	0		
	1730	"	1010.9	996.0	...	31.2	19.3	9.7	12.7	29	...	0.5	...	15.8	0	9	21	5	15	5	1	1	0	2	0	0	0		
Surendranagar . . .	0330	74	1014.9	1006.3	...	22.6	16.4	11.2	13.6	50	...	0.8	...	4.1	0	0	24	1	17	2	1	0	1	1	6	0			
	1830	"	1011.3	1002.9	...	31.0	19.4	10.1	13.2	30	...	1.6	...	5.5	0	0	30	4	21	3	1	0	1	0	0	0			
Bhavnagar . . .	0830	17	1014.7	1012.7	+0.1	22.0	17.9	15.0	17.1	64	+15	0.8	-0.7	1.7	0	0	17	3	4	2	0	1	1	0	6	13	0		
	1730	"	1011.3	1009.4	...	31.1	21.3	14.9	17.5	39	...	1.1	...	4.7	0	0	28	0	18	6	1	3	0	0	0	2	0		
Bhavnagar (Aerodrome)	0830	11	1014.3	1013.1	...	23.5	19.0	15.9	18.3	63	...	1.2	...	10.3	0	4	18	7	3	2	1	1	0	2	6	8	0		
	1130	"	1014.4	1013.2	...	28.3	21.0	16.3	18.9	49	...	1.0	...	17.7	0	7	23	0	15	11	4	0	0	0	0	0	0		
	1730	"	1011.1	1009.9	...	30.6	21.2	15.0	17.5	41	...	1.1	...	18.2	0	10	20	1	20	3	3	3	0	0	0	0	0		
Mahuva . . .	0830	16	1013.7	1011.9	...	24.1	20.5	18.2	21.2	71	...	1.1	...	8.3	0	2	20	0	19	1	1	0	0	0	0	8	0		
	1730	"	1010.9	1009.2	...	30.1	24.3	21.1	25.6	60	...	1.2	...	13.7	0	1	28	0	4	12	8	4	1	0	0	0	0		
Keshod . . .	0830	51	1014.2	1008.3	...	24.9	18.5	14.2	16.1	53	...	1.3	...	15.1	0	5	25	0	6	23	1	0	0	0	0	0	0		
	1130	"	1014.0	1008.3	...	30.7	20.5	14.6	16.0	39	...	1.5	...	19.0	0	10	20	2	11	10	3	0	0	0	0	1	0		
Veraval . . .	0230	8	1011.9	1011.0	...	21.5	18.3	15.7	18.5	73	...	0.7	...	10.8	0	3	25	15	13	0	0	0	0	0	0	2	0		
	0530	"	1011.9	1011.0	...	20.6	17.0	13.9	16.5	69	...	0.6	...	11.1	0	3	25	13	13	2	0	0	0	0	0	2	0		
	0830	"	1013.6	1012.7	-0.3	23.9	18.5	14.2	17.0	57	+5	1.3	+0.2	10.7	0	4	24	6	20	1	1	0	0	0	0	2	0		
	1130	"	1013.7	1012.8	...	30.6	21.8	15.9	18.9	44	...	1.3	...	17.4	0	8	22	2	8	3	3	6	6	2	0	0			
	1730	"	1011.1	1010.2	...	28.8	23.5	20.3	24.7	63	...	1.3	...	15.2	0	10	18	1	2	0	3	3	11	7	1	2	0		
	2330	"	1013.0	1012.1	...	23.1	20.0	17.8	20.9	75	...	0.9	...	6.3	0	0	21	10	6	3	0	1	1	0	0	9	0		
Konkan																													
Dahanu . . .	0830	5	1012.8	1012.3	+0.1	24.6	19.9	16.6	19.3	63	-13	1.7	-0.9	5.7	0	0	30	0	3	18	7	1	0	0	1	0	0		
	1730	"	1010.2	1009.7	...	28.8	24.2	22.0	26.4	67	...	1.5	...	17.6	0	8	22	0	0	0	0	0	2	6	0				
Bombay (Colaba) . . .	0830	11	1012.8	1011.6	-0.5	25.2	22.9	21.6	26.2	81	+8	1.9	+0.1	4.5	0	0	27	1	12	11	3	0	0	0	0	3	0		
	1130	"	1012.7	1011.5	...	30.7	24.5	21.4	25.7	58	...	1.4	...	6.0	0	0	28	1	8	10	5	0	0	0	2	2	0		
Bombay (Santacruz Aerodrome)	0230	15	1010.9	1009.2	...	23.2	20.4	18.5	21.7	78	...	1.3	...	2.5	0	1	11	4	2	0	0	0	0	0	0	18	0		
	0530	"	1010.9	1009.2	...	22.4	19.8	17.9	20.9	77	...	0.9	...	4.2	0	0	21	0	9	12	0	0	0	0	0	9	0		
	0830	"	1012.7	1011.0	-0.7	26.7	20.9	17.1	20.0	58	-2	1.7	-0.1	11.0	0	2	24	1	7	18	0	0	0	0	0	4	0		
	1130	"	1012.7	1011.0	...	31.5	22.2	16.5	19.2	42	...	1.5	...	16.2	0	8	22	1	5	16	6	0	0	1	1	0	0		
	1730	"	1010.0	1008.4																									

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—NOVEMBER, 1958 (KARTIKA 10—AGRAHAYANA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level, in metres	Mean pressure in millibars												Mean temperature in °C		Cloud amount (Octas)		Wind speed (km. p.h.)		No. of observations														
			At station level						Departure from normal						At station level		Departure from normal						Mean amount		Departure from normal		Mean wind speed, km. per hour		Wind direction						
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	Calm	Variable					
Maharashtra																																			
Nandurbar	0830	206	1015·0	991·6	...	25·8	19·5	14·9	17·5	52	...	1·5	...	6·5	0	0	30	3	18	5	4	1	0	0	0	0	0	0	0	0	0				
Jalgaon	1730	"	1010·7	987·8	...	30·5	22·2	17·3	20·0	46	...	3·5	...	5·2	0	0	26	1	20	2	3	0	0	0	0	0	4	0	0	0	0				
Malegaon	0830	201	1015·2	992·1	...	21·9	17·6	14·1	16·5	63	...	1·3	...	12·2	0	0	30	0	2	20	8	0	0	0	0	0	0	0	0	0	0				
Malegaon	1730	"	1010·8	988·3	...	30·0	20·6	13·8	16·4	39	...	2·3	...	7·5	0	0	27	3	5	15	3	1	0	0	0	0	0	3	0	0	0				
Deolali	0830	437	1014·8	965·5	0	22·5	17·2	13·0	15·3	56	-2	1·8	-0·1	2·4	0	0	13	1	2	3	2	0	0	3	2	17	0	0	0	0	0				
Deolali	1730	"	1010·3	962·1	...	28·9	20·1	13·7	16·3	42	...	3·0	...	7·3	0	0	30	4	20	5	0	1	0	0	0	0	0	0	0	0	0				
Aurangabad	0830	571	1015·2	950·9	...	20·9	17·0	14·3	16·5	67	...	2·2	...	5·3	0	0	26	10	13	2	1	0	0	0	0	0	4	0	0	0	0				
Aurangabad	1730	"	1010·4	947·9	...	28·4	19·5	13·9	16·2	43	...	3·5	...	4·7	0	1	20	0	3	14	0	1	0	0	1	2	9	0	0	0	0				
Aurangabad (Chikalthana Aerodrome)	0230	579	1013·0	947·4	...	18·2	15·0	12·4	14·7	70	...	2·2	...	2·4	0	0	6	0	3	1	1	1	0	0	0	24	0	0	0	0	0				
Aurangabad (Chikalthana Aerodrome)	0530	"	1013·6	947·6	...	16·7	14·3	12·3	14·5	76	...	1·5	...	2·1	0	0	6	0	1	4	1	0	0	0	0	24	0	0	0	0	0				
Aurangabad (Chikalthana Aerodrome)	0830	"	1014·4	949·6	...	22·5	17·9	14·8	17·1	63	...	2·0	...	4·5	0	0	14	0	1	9	4	0	0	0	0	0	16	0	0	0	0	0			
Aurangabad (Chikalthana Aerodrome)	1130	"	1012·9	949·2	...	26·9	19·6	14·9	17·4	50	...	2·8	...	11·5	0	2	26	0	3	12	13	0	0	0	0	0	2	0	0	0	0	0			
Aurangabad (Chikalthana Aerodrome)	1730	"	1009·8	946·3	...	27·5	19·1	13·5	15·9	48	...	3·6	...	8·5	0	0	23	2	8	10	3	0	0	0	0	0	7	0	0	0	0	0			
Aurangabad (Chikalthana Aerodrome)	2330	"	1013·7	948·5	...	20·2	16·0	12·9	15·2	65	...	2·3	...	3·1	0	0	9	1	3	5	0	0	0	0	0	21	0	0	0	0	0				
Ahmednagar	0830	657	1014·5	941·0	-0·4	21·4	17·0	14·0	16·1	64	+5	2·2	+0·4	3·7	0	0	22	0	3	0	3	0	1	0	15	8	0	0	0	0					
Parbhani	1730	"	1009·5	938·0	...	28·7	19·4	13·8	16·6	45	...	3·5	...	5·2	0	0	29	0	21	0	1	0	2	0	5	1	0	0	1	0					
Poona	0530	423	1014·9	967·1	...	22·4	18·5	15·7	18·1	67	...	3·1	...	8·3	0	0	29	8	13	7	1	0	0	0	0	1	0	0	0	0	0				
Poona	0830	"	1010·5	963·6	...	28·0	20·5	15·4	18·0	49	...	3·6	...	9·1	0	0	29	2	19	8	0	0	0	0	0	1	0	0	0	0	0				
Poona (Lohazaon Aerodrome)	0530	559	1012·8	949·3	...	18·1	16·3	15·2	17·2	83	...	1·6	...	0·9	0	0	4	0	2	1	0	0	1	0	0	26	0	0	0	0	0				
Poona (Lohazaon Aerodrome)	0830	"	1014·2	951·4	-0·4	21·3	17·8	15·4	17·6	70	-3	2·2	+0·3	1·0	0	0	6	1	1	2	1	0	0	1	0	24	0	0	0	0	0				
Poona (Lohazaon Aerodrome)	1130	"	1012·2	950·7	...	27·7	19·8	14·8	17·3	48	...	2·6	...	7·5	0	0	25	4	6	10	5	0	0	0	0	0	5	0	0	0	0	0			
Poona (Lohazaon Aerodrome)	1730	"	1008·8	947·7	...	28·5	19·9	14·4	17·0	45	...	3·7	...	2·7	0	0	12	5	2	2	0	0	0	0	0	1	13	0	0	0	0	0			
Poona (Lohazaon Aerodrome)	2330	"	1012·8	950·0	...	21·6	18·0	15·6	18·1	70	...	2·1	...	1·0	0	0	5	1	1	2	0	0	1	0	0	0	25	0	0	0	0	0			
Baramati	0230	593	1012·4	945·6	...	20·1	17·1	14·7	17·3	73	...	1·8	...	2·7	0	0	12	1	1	3	0	1	0	1	0	1	5	18	0	0	0	0	0		
Baramati	0530	"	1012·8	945·7	...	19·0	16·0	14·1	16·0	75	...	1·8	...	3·3	0	0	11	0	1	5	0	0	0	0	1	4	19	0	0	0	0	0			
Baramati	0830	"	1014·0	947·7	...	22·3	18·1	15·6	17·8	67	...	2·7	...	4·0	0	0	14	0	0	11	2	1	0	0	1	0	16	0	0	0	0	0			
Baramati	1130	"	1012·4	947·3	...	27·6	20·5	16·3	18·9	52	...	3·0	...	11·4	0	3	23	0	1	18	6	0	0	0	0	0	4	0	0	0	0	0			
Baramati	1730	"	1009·0	944·2	...	28·5	20·3	15·5	17·8	47	...	3·7	...	6·7	0	2	21	3	3	12	3	0	0	0	0	0	2	7	0	0	0	0	0		
Baramati	2330	"	1012·9	946·5	...	22·0	17·8	14·9	17·3	66	...	2·2	...	3·3	0	0	15	1	2	4	1	1	0	0	1	6	15	0	0	0	0	0			
Jeur	0830	551	1014·4	952·4	...	21·3	17·6	15·2	17·4	69	...	2·5	...	5·5	0	0	29	4	3	8	4	3	3	1	5	1	0	0	0	0	0	0	0	0	0
Jeur	1730	"	1008·7	948·6	...	29·2	27·8	15·8	18·5	45	...	3·8	...	7·4	0	1	25	1	13	3	2	1	0	0	0	0	4	0	0	0	0	0			
Shelapur	0830	521	1013·4	955·2	...	22·9	17·7	13·8	16·4	58	...	2·5	...	4·7	0	0	18	1	5	8	3	1	0	0	0	0	12	0	0	0	0	0			
Shelapur	1730	"	1008·4	951·6	...	29·5	19·5	12·9	15·3	38	...	3·6	...	7·7	0	1	25	0	9	12	2	0	1	0	0	0	1	4	0	0	0	0	0		
Miraj	0830	479	1012·9	958·6	...	20·2	17·5	15·8	18·0	76</																									

TABLE III.—SUMMARY OF OBSERVATIONS AT FIXED HOURS—NOVEMBER, 1958 (KARTIKA 10—AGRAHAYANA 9, 1880 SAKA)

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—NOVEMBER, 1958 (KARTIKA 10—AGRAHAYANA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.		Mean pressure in millibars	Mean temperature in °C				Cloud amount (Okta)	Wind speed (km. p.h.)	No. of observations																		
	1	2		At station level			Relative humidity %	Departure from normal		Wind direction																		
				At mean sea level or height in ft.m. of the nearest standard isobaric level	Dry bulb	Wet bulb	Dew point			N	NE	E	SE	S	SW	W	NW	Calm	Variable									
Telangana—Contd.																												
Hakimpet—Contd.	1130	613	1012.0	944.7	...	26.2	19.9	15.8	18.5	55	4.6	...	13.1	0	4	25	4	13	7	5	0	0	0	1	0			
	1730	"	1039.9	942.6	...	25.9	19.8	16.0	18.7	57	4.5	...	10.0	0	3	27	5	10	11	4	0	0	0	0	0			
Hanamkonda	0830	269	1013.8	983.4	-0.8	23.6	20.6	18.9	21.9	76	+7	3.0	-0.1	4.9	0	0	28	13	5	2	3	2	1	1	2	0		
Bhadrachallem	1730	"	1010.7	980.1	...	27.6	21.6	18.3	21.1	58	...	3.1	...	4.5	0	0	29	7	17	1	0	4	0	0	0	1	0	
Khammameth	0830	111	1014.0	1001.4	...	24.8	22.4	21.3	25.3	80	...	4.0	...	6.3	0	0	27	2	21	2	0	1	1	0	0	3	0	
	1730	"	1010.4	997.7	...	28.3	23.8	21.4	26.0	67	...	4.2	...	4.4	0	0	28	7	12	6	2	0	0	1	0	2	0	
Rayalaseema Arogyavaram	0830	112	1013.8	1000.0	...	24.5	22.3	20.0	25.0	83	...	4.1	...	4.6	0	0	24	10	4	9	0	0	0	0	1	6	0	
	1730	"	1010.2	997.2	...	28.1	22.6	19.6	23.2	62	...	5.2	...	5.8	0	0	25	9	5	9	1	1	0	0	0	5	0	
Cuddapah	0830	130	1012.9	998.2	-0.5	26.7	23.5	21.9	26.4	75	-1	3.2	-0.6	2.5	0	0	12	1	1	10	0	0	0	0	0	18	0	
	1730	"	1009.5	994.9	...	28.0	24.1	22.2	26.9	71	...	3.9	...	5.6	0	0	20	0	1	19	0	0	0	0	0	10	0	
Anantapur	0530	350	1010.7	971.0	...	21.6	20.0	19.1	22.1	86	...	3.3	...	2.4	0	0	8	1	0	7	0	0	0	0	0	22	0	
	0830	"	1012.3	973.0	...	24.7	21.4	19.5	22.9	73	...	4.0	...	3.5	0	0	17	2	4	8	0	2	0	0	0	13	1	
	1130	"	1011.2	972.4	...	28.0	21.7	17.9	21.0	55	...	4.5	...	9.0	0	0	30	1	14	11	4	0	0	0	0	0	0	
	1730	"	1008.3	969.6	...	28.7	21.6	17.2	20.0	52	...	5.0	...	11.0	0	1	29	3	10	14	3	0	0	0	0	0	6	0
Kurnool	0830	281	1013.3	981.5	-0.3	23.9	21.1	19.6	22.8	77	1	4.8	+1.8	4.7	0	0	28	0	16	2	4	0	2	0	4	2	0	
	1730	"	1008.	977.8	...	29.6	22.1	17.6	20.5	50	...	5.2	...	6.0	0	1	26	5	13	9	0	0	0	0	0	3	0	
Madras State Palayamcottai	0830	51	1012.1	1006.3	...	27.4	24.0	22.4	27.0	74	...	5.6	...	6.7	0	1	29	16	2	0	1	1	4	5	0	0		
	1730	"	1006.7	1003.0	...	28.4	24.3	22.5	25.8	71	...	6.9	...	7.6	0	0	30	0	6	11	5	3	1	4	0	0	0	
Tuticorin	0830	4	1012.2	1011.8	...	27.4	24.7	23.4	20.9	79	...	3.9	...	10.9	0	1	29	9	8	1	0	0	4	6	2	0	0	
	1730	"	1009.1	1008.7	...	28.7	25.6	24.3	30.4	77	...	4.0	...	18.5	0	11	19	0	1	13	7	4	2	2	1	1	0	
Pamban	0830	11	1011.7	1010.4	-0.1	27.3	25.1	24.0	30.1	83	+0.0	4.8	+0.3	7.9	0	1	23	7	4	2	2	1	1	5	0	0		
	1730	"	1009.0	1007.7	...	27.8	25.1	24.0	29.7	80	...	5.3	...	9.9	0	1	26	6	13	0	2	4	1	0	1	3	0	
Mathurai	0830	133	1011.6	996.6	-0.7	26.7	24.0	23.2	27.7	79	-1	5.5	+0.4	3.0	0	0	30	3	11	0	2	0	1	0	13	0	0	
	1730	"	1008.4	993.5	...	28.7	24.6	22.7	27.6	71	...	6.5	...	3.0	0	0	30	0	20	0	4	0	2	2	0	0	0	
Mathurai (Aerodrome)	0530	131	1010.3	995.1	...	23.6	22.9	22.5	27.4	94	...	5.4	...	2.4	0	0	19	7	4	2	0	0	1	0	5	11	0	
	0830	"	1011.8	996.7	...	26.4	23.6	22.3	26.9	79	...	3.9	...	4.7	0	0	26	13	7	1	0	1	0	0	4	4	0	
	1130	"	1011.0	996.1	...	29.1	24.5	22.3	27.0	67	...	4.7	...	5.6	0	1	27	3	13	2	0	1	0	0	3	2	1	
Nagapattinam	0830	9	1012.1	1010.9	-0.1	26.6	24.5	23.4	28.6	83	+1	5.3	-0.1	9.3	0	27	3	6	4	0	1	2	3	4	10	0	0	
	1730	"	1009.1	1003.0	...	27.8	24.8	23.4	29.0	77	...	5.3	...	16.6	0	20	10	5	14	2	4	2	1	1	0	0	0	
Tiruchirapalli	0230	88	1009.7	999.6	...	24.7	23.3	22.6	27.3	89	...	3.8	...	8.4	0	1	21	0	9	8	1	1	0	2	1	8	0	
	0530	"	1010.1	1000.0	...	24.3	23.0	22.4	27.0	90	...	4.7	...	6.0	0	2	16	3	9	2	0	0	1	1	2	12	0	
	0830	"	1012.0	1002.0	-0.7	26.2	23.6	22.4	27.0	79	-2	4.7	+0.2	12.1	0	4	22	4	10	1	0	1	0	9	1	4	0	
	1130	"	1011.2	1001.3	...	29.2	24.1	21.5	25.9	64	...	5.2	...	14.9	0	6	23	3	12	3	0	2	0	4	5	1	0	
	1730	"	1008.6	998.7	...	28.8	24.2	22.1	26.5	68	...	5.6	...	13.4	0	4	25	0	9	12	1	2	3	1	1	2	0	
	2330	"	1011.4	1001.4	...	25.5	23.7	23.0	27.6	86	...	3.6	...	11.9	0	1	27	0	12	6	2	2	3	2	1	2	0	
Coimbatore	0830	409	1012.3	966.5	-0.7	24.3	22.0	20.8	25.0	81	-1	6.5	+2.2	12.0	0	0	30	1	8	7	0	6	7	0	1	0	0	
	1730	"	1008.4	963.3	...	27.6	22.5	19.7	23.2	63	...	5.7	...	7.5	0	0	30	1	8	9	1	5	5	1	0	0	0	
Coimbatore (Peelamedu Aerodrome)	0530	398	1010.4	965.4	...	22.0	21.2	20.9	25.0	94	...	4.7	...	4.4	0	0	18	1	2	3	3	4	1	1	12	0		
	0830	"	1011.9	967.2	...	24.1	22.2	21.0	25.1	84	...	5.1	...	11.0	0	1	28	1	10	6	3	4	4	1	0	1	0	
	1130	"	1010.8	966.6	...	27.4	22.8	20.4	24.0	66	...	5.5	...	14.6	0	3	27	2	17	2	1	6	2	0	0	0		
	1730	"	1008.1	964.0	...	27.6	22.4	19.6	22.3	64	...	5.2	...	12.1	0	2	28	0	8	11	2	6	2	1	0	3	0	
	2330	"	1011.3	966.5	...	23.5	21.9	21.0	25.2	86																		

TABLE III.—SUMMARY OF OBSERVATIONS AT FIXED HOURS—NOVEMBER, 1958 (KARTIKA 10—AGRAHAYANA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Cloud amount (Octas)			Wind speed (km. p.h.)	No. of observations															
			At mean sea height in g.p.m. or height in g.p.m. of normal station level			At station level			Departure from normal				Relative humidity %			Mean amount			Mean wind speed, km. per hour			Wind direction						
			4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
1	2	3																										
Madras State—Contd. Tirupattur	0830	390	1011.6	967.7	..	23.6	21.7	20.2	24.3	82	..	4.4 (b)	..	0.3 (b)	0	0	13	6	2	1	0	2	0	2	0	17	0	
	1730	"	1009.1	965.5	..	26.3	21.9	19.5	23.3	64	..	6.1	..	3.2	0	0	21	4	2	6	0	5	0	3	0	9	0	
	0530	214	1010.6	986.1	..	22.3	21.5	21.1	25.0	93	..	5.8	..	0.8	0	0	6	0	1	1	0	3	0	9	16	0		
	0830	"	1012.2	987.9	-0.5	24.2	22.4	21.4	25.7	85	+1	5.2	+1.1	1.4	0	0	14	0	1	0	0	1	3	0	9	18	0	
	1130	"	1011.1	987.2	..	27.9	23.0	20.4	24.1	65	..	5.4	..	6.0	0	0	28	8	7	6	0	2	1	0	4	2	0	
	1730	"	1009.0	985.0	..	26.9	22.8	20.6	24.5	70	..	5.7	..	6.9	0	0	29	2	15	8	1	2	0	0	1	1	0	
Vellore	2330	"	1011.5	987.3	..	24.3	22.4	21.4	25.6	85	..	3.9	..	1.9	0	0	12	2	6	0	0	0	0	0	4	18	0	
	0830	29	1011.7	1008.4	..	26.3	24.6	23.8	29.6	86	..	5.1	..	11.0	0	4	24	10	3	1	2	2	0	2	8	2	0	
	1730	"	1009.2	1005.9	..	26.8	24.0	22.7	27.6	79	..	4.9	..	17.6	1	6	23	7	10	7	3	2	0	0	1	0	0	
	0230	16	1009.6	1007.8	..	24.5	23.8	23.3	29.0	94	..	3.8	..	6.7	0	1	23	10	1	1	0	2	1	3	6	6	0	
	0530	"	1010.0	1008.2	..	24.1	23.5	23.2	28.5	95	..	5.0	..	7.7	0	2	23	6	0	0	0	2	2	6	9	5	0	
	0830	"	1012.1	1010.4	-0.8	25.7	24.1	23.4	28.6	87	+4	5.2	+0.4	9.8	0	1	26	15	0	0	0	3	0	4	5	3	0	
Tambaram (Aerodrome)	1130	"	1011.3	1009.6	..	28.1	24.7	23.2	28.5	76	..	5.4	..	18.0	0	9	20	9	5	5	0	4	0	1	4	1	1	
	1730	"	1009.7	1007.9	..	26.9	24.3	23.1	28.3	80	..	4.8	..	13.6	0	2	28	13	5	6	3	2	0	0	1	0	0	
	2330	"	1011.5	1009.7	..	25.3	24.1	23.5	28.9	90	..	3.3	..	8.2	0	2	27	13	6	1	2	3	0	0	4	1	0	
	0830	6	1011.7	1011.0	..	26.2	24.3	23.3	29.0	85	..	5.3	..	6.4	0	0	28	7	2	0	0	0	1	1	17	2	0	
	0830	4	1012.1	1011.6	-0.2	25.3	22.7	21.4	25.5	79	..	2.5	..	1.9	0	0	17	0	3	8	6	0	0	0	13	0	0	
	1730	"	1009.1	1008.7	..	28.8	24.7	23.0	27.8	71	..	2.7	..	4.1	0	0	23	2	0	0	2	1	0	0	8	9	7	1
Honavar	0830	26	1011.9	1009.0	-0.4	24.9	22.8	21.6	26.3	80	+10	5.5	+1.4	1.0	0	0	5	0	2	2	1	0	0	0	25	0	0	
	1730	"	1009.1	1006.2	..	29.7	25.2	23.2	28.5	68	..	5.0	..	1.8	0	0	13	0	0	0	2	0	0	5	6	17	0	
	0230	22	1009.7	1007.2	..	25.0	23.7	23.1	28.3	89	..	3.4	..	5.9	0	2	21	0	3	16	3	0	1	0	0	7	0	
	0530	"	1009.9	1007.4	..	24.4	23.3	22.9	27.8	91	..	4.2	..	9.7	0	0	30	0	2	25	2	0	0	0	1	0	0	
	0830	"	1011.9	1009.4	-0.3	26.6	23.9	22.7	27.6	79	+4	3.9	+0.5	7.0	0	0	29	2	4	20	3	0	0	0	1	0	1	
	1130	"	1011.3	1008.9	..	29.5	24.5	22.0	26.8	65	..	3.8	..	7.8	0	9	28	0	3	3	1	2	3	9	7	2	0	
Mangalore	1730	"	1009.0	1006.5	..	28.5	24.7	22.8	28.1	72	..	5.0	..	11.0	0	0	30	1	1	0	1	3	3	5	16	0		
	0230	22	1011.3	1008.8	..	25.9	24.2	23.5	28.9	87	..	4.3	..	7.8	0	1	27	5	1	16	4	0	0	1	1	2	0	
	0530	"	1011.7	998.4	..	23.0	22.6	22.4	27.1	97	..	4.0	..	2.2	0	0	18	0	1	13	3	0	0	0	1	12	0	
	0830	"	1012.0	1000.3	..	26.0	23.9	22.9	28.2	83	..	4.3	..	6.4	0	0	26	1	0	20	5	0	0	0	4	0		
	1730	"	1009.1	997.5	..	27.7	24.3	22.6	27.8	75	..	4.7	..	12.4	0	0	27	1	0	0	1	2	2	17	4	3		
	0830	664	1013.6	939.7	..	21.8	18.2	15.9	18.3	71	+11	4.3	+1.8	11.1	0	0	30	3	9	13	5	0	0	0	0	0	0	
Mysore (North) Bidar	1730	"	1009.7	936.8	..	25.4	18.7	14.3	16.9	53	..	4.9	..	11.6	0	2	28	3	22	3	1	0	1	0	0	0	0	0
	0830	458	1013.7	962.4	-0.3	24.3	19.2	15.8	18.5	61	0	4.5	+2.4	15.2	0	2	28	2	14	8	5	1	0	0	0	2	0	
	1730	"	1008.9	958.6	..	28.7	19.4	12.6	16.2	41	..	6.2	..	26.0	0	22	6	3	14	7	0	4	0	0	0	2	0	
	0830	594	1013.8	947.3	-0.2	21.9	18.8	16.8	19.3	74	+12	3.7	+1.0	4.2	0	0	26	5	6	9	4	2	0	0	0	4	0	
	1730	"	1008.4	943.71	..	28.5	20.3	16.5	18.6	50	..	5.0	..	4.5	0	0	29	7	9	9	4	0	0	0	1	0		
	0830	753	1012.9	929.9	-0.1	22.9	19.6	16.0	20.1	67	+1	2.8	0	6.7	0	0	25	2	9	11	2	1	0	0	0	5	0	
Belgaum (Sambre Aerodrome)	1730	"	1008.4	927.0	..	26.8	20.4	15.9	18.7	55	..	5.4	..	7.4	0	0	30	7	11	5	0	1	1	1	4	1	0	
	0530	747	1011.4	928.5	..	20.2	19.1	17.0	10.2	82	..	2.6	..	1.2	0	1	3	0	2	2	0	0	0	0	2	26	0	
	0830	"	1012.6	930.3	..	22.9	19.3	17.3	19.8	71	..	3.6	..	7.5	0	2	21	0	7	12	3	1	0	0	0	7	0	
	1130	"	1011.3	930.0	..	26.3	21.1	18.5	21.1	63	..	3.9	..	7.5	0	2	20	0	5	9	7	1	0	0	0	8	0	
	1730	"	1008.2	927.2	..	26.8	21.3	18.6	21.4	62	..	3.9	..	9.2	0	3	22	0	6	13	1	2	2	1	0	5	0	
	0830	650	1012.6	940.8	-0.2	23.5	18.9	16.1	18.6</																			

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—NOVEMBER, 1958 (KARTIKA 10—AGRAHAYANA 9, 1880 SAKA)

(R) Register not received.

*Data given as addenda in December, 1958 issue.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—NOVEMBER, 1958 (KARTIKA 10—AGRAHAYANA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mb.			Relative humidity %			Cloud amount (Oktas)		Wind speed (km. p.h.)		No. of observations												
			At mean sea level or height in G.P.M. of selected barometric level			At station level			Departure from normal			Departure from normal			Mean amount		Departure from normal		Mean wind km. per hour		62 or more		20 to 61		1 to 19		Wind direction				
			2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28				
Hill Stations excluding Kathmandu—Contd.																															
Kathmandu (Hydromet.)	0830	1324	1541.8	872.5	...	11.8	10.9	10.0	21.3	89	...	3.3	...	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	
	1130	"	1535.4	871.2	...	20.4	14.0	8.7	13.8	48	...	1.4	...	0.8	0	0	6	1	2	1	1	0	0	0	0	0	0	0	24	0	
	1730	"	1512.7	869.2	...	16.4	13.2	10.7	12.8	69	...	1.6	...	1.4	0	0	6	1	0	0	0	0	0	0	0	0	0	0	24	0	
Mukteswar (Kumaon)	0830	2311	3168.3	776.3	+1.3	11.5	6.0	-2.9	5.9	46	+2	1.0	-0.3	10.2	0	1	20	0	5	6	2	1	1	3	3	9	0	0			
	1730	"	3151.4	774.6	...	11.8	8.0	3.3	8.1	61	...	1.6	...	8.2	0	2	21	1	1	0	0	0	0	3	11	7	7	0			
Nainital	0830	1953	1528.6	808.4	...	11.6	7.0	1.2	7.3	53	...	1.1	...	1.6	0	0	9	0	0	2	2	0	0	0	2	3	21	0	0		
	1730	"	1510.8	806.6	...	11.1	8.1	4.3	8.8	68	...	1.9	...	5.7	0	0	29	1	2	15	6	1	0	0	1	1	3	21	0		
Joshimath	0830	12.0	5.9	-1.8	6.0	42	...	2.0	...	7.8	0	0	29	1	2	15	6	1	0	0	1	1	3	21	0		
Badrinath	0830	6.2	1.0	-7.7	3.6	41		
Lokpal	0830	-6.3	-8.6	-13.3	1.9	53		
Mussoorie	0830	2042	1524.3	799.8	+0.2	12.8	8.1	3.5	7.7	55	+8	1.7	+0.5	2.2	0	0	21	4	3	0	4	6	2	0	2	9	0	0			
	1730	"	1509.4	798.5	...	11.8	9.6	7.7	10.4	78	...	2.9	...	2.2	0	0	22	1	1	0	5	10	5	0	0	8	0	0			
Simla	0830	2202	1528.5	785.1	+1.1	12.2	6.4	-2.6	5.9	45	+11	1.5	+0.2	2.4	0	0	24	2	4	2	6	6	1	0	3	6	0	0			
	1730	"	1518.0	784.0	...	11.2	7.6	3.4	8.1	68	...	1.9	...	3.0	0	0	30	4	6	2	8	6	2	0	0	2	0	0			
Dalhousie	0830	1959	1481.9	803.5	...	12.4	6.6	-1.8	5.9	42	...	0	...	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0		
	1730	"	1474.0	803.0	...	13.7	9.1	4.2	8.5	56	...	0.3	...	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	
Dharamshala	0830	1211	1576.2	887.3	...	16.2	10.4	4.6	8.3	47	...	2.4	...	0.2	0	0	2	0	0	1	0	0	1	0	0	0	0	0	28	0	
	1730	"	1567.8	886.3	...	17.7	12.3	7.4	10.7	52	...	2.7	...	2.6	0	0	26	0	1	0	0	1	24	0	0	0	4	0			
Abu	0830	1195	1538.2	885.2	+0.3	16.6	11.9	7.3	10.6	56	+11	1.1	+0.1	0.4	0	0	3	0	0	0	0	1	1	0	0	0	27	0			
	1730	"	1530.6	883.6	...	20.4	14.3	8.4	12.0	47	...	0.7	...	0.2	0	0	2	1	0	0	0	0	0	0	0	1	28	0			
Pachmarhi	0830	1075	1545.5	898.1	+0.5	18.9	14.3	10.6	12.9	61	+4	1.8	+0.1	2.6	0	0	16	0	6	8	1	1	0	0	0	0	14	0			
	1730	"	1526.8	855.7	...	21.8	16.3	12.9	15.0	58	...	2.2	...	2.1	0	0	18	4	7	7	0	0	0	0	0	0	12	0			
Mahabaleswar	0830	1382	1529.6	865.0	+0.3	18.6	14.9	11.8	14.3	67	+1	3.0	+0.8	12.9	0	4	26	0	5	6	0	1	1	10	0	0	0	0			
	1730	"	1512.6	863.2	...	20.6	16.6	13.1	15.4	64	...	4.1	...	8.0	0	0	30	6	5	6	0	1	1	10	0	0	0	0			
Nandi Hills	0830	...	...	...	...	18.4	18.4	18.4	21.3	100	...	...	...	0	0	2	14	3	8	2	2	0	0	0	0	1	14	0
Mercrea	0830	1152	1517.5	887.1	+0.3	19.0	17.6	16.6	19.1	87	+4	3.9	-0.9	5.6	0	0	29	2	12	12	0	0	0	0	2	1	1	0			
	1730	"	1500.5	885.0	...	22.0	19.0	17.0	19.7	75	...	4.5	...	4.0	0	0	29	1	9	9	0	0	1	5	3	1	1	0			
Kodaikanal	0530	2343	3139.4	770.7	...	10.7	10.4	10.1	12.5	97	...	6.4	...	7.8	0	2	22	8	4	0	0	1	1	9	6	0	0				
	0830	"	3160.4	772.4	+0.9	12.9	11.6	10.7	12.7	87	+8	4.3	-0.6	6.3	0	2	21	6	7	0	1	1	1	6	7	0	0				
	1130	"	3166.9	772.3	...	15.7	13.3	11.5	13.9	77	...	6.0	...	8.2	0	1	22	8	5	2	1	0	1	0	6	7	0				
	1730	"	3143.6	770.8	...	13.2	12.3	12.1	14.0	93	...	6.7	...	6.3	0	2	20	7	2	1	0	1	0	1	10	8	0				
	2330	"	3154.4	772.3	...	11.5	11.0	10.6	12.4	95	...	6.8	...	8.8	0	2	21	6	4	1	0	1	1	2	8	7	0				
Dotacamund	0830	2249	1513.4	790.2	+0.3	14.1	12.7	11.3	13.8	82	+6	3.8	-0.8	3.3	0	0	10	2	6	0	0	1	0	0	0	0	20	0			
	1730	"	1501.1	779.2	...	14.5	13.1	12.7	14.2	87	...	6.7	...	2.1	0	1	4	2	1	0	0	0	1	0	0	1	25	0			
Coonoor	0830	1747	1518.2	828.0	...	17.4	15.3	14.0	16.0	82	...	4.7	...	2.1	0	0	18	2	3	2	5	5	0	0	0	1	12	0			
Sikkim Lachen	0830	...	...	...	...	8.7	4.6	-0.7	5.8	52	...	...	...	...</td														

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—NOVEMBER, 1958 (KARTIKA 10—AGRAHAYANA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Relative humidity %	Departure from normal	Cloud amount (Oktas)		Wind speed (km. p.h.)	No. of observations														
			At mean sea level or height in g.p.m. of nearest standard isobaric level			At station level					Mean amount			Departure from normal		Wind speed, km. per hour		Wind direction										
			2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
Hydrometeorological Observatories—Contd. Damodar Catchment Ramgarh—Contd.	0830	20.6	17.4	15.3	17.3	72	...	0.6	...	2.7	0	0	24	0	0	0	1	4	3	15	1	6	0	
	1730	23.3	19.1	16.3	18.6	66	...	1.2	...	0.3	0	0	3	0	0	1	0	1	0	13	3	0	0	
Panchet Hills	0830	23.6	19.6	17.1	19.6	67	...	2.0	...	3.0	0	0	30	4	8	1	0	1	1	13	3	0	0	
	1730	24.5	20.0	17.3	19.3	65	...	1.8	...	2.9	0	0	29	6	7	4	3	0	4	0	5	1	0	
Durgapur	0830	24.3	20.7	18.7	21.5	71	...	1.7	...	8.7	0	0	29	4	6	2	2	2	1	2	10	1	0	
	1730	25.5	21.1	18.5	21.3	65	...	0.6	...	5.7	0	0	30	15	5	5	0	3	0	0	2	0	0	
Mahanadi Catchment Baramul	0830	64	1014.9	1007.4	...	23.6	21.4	20.1	23.7	81	...	3.6	...	5.5	0	0	22	6	4	0	2	1	4	0	5	8	0	
	1730	„	1011.7	1004.3	...	24.2	22.0	20.9	25.3	80	...	4.0	...	1.3	0	0	6	1	1	0	0	0	1	1	2	24	0	
Hirakud	0830	159	1015.6	997.5	...	24.8	21.3	18.7	22.4	69	...	1.8	...	4.1	0	0	30	9	11	4	1	0	0	0	5	0	0	
	1730	„	1011.8	993.9	...	26.6	21.4	18.4	21.3	61	...	2.6	...	2.7	0	0	18	1	7	4	1	1	0	2	2	12	0	
Khijrawan	0830	22.4	19.8	18.2	21.4	79	...	2.7	...	2.1	0	0	15	0	6	3	1	2	2	0	0	3	20	0
	1730	24.8	21.0	19.6	21.9	70	...	3.2	...	1.2	0	0	10	2	3	2	0	0	0	0	0	3	20	0
Sonepur	0830	25.3	21.9	20.1	23.7	73	4.0	0	0	23	3	4	9	3	1	0	2	1	7	0	
	1730	21.4	17.3	14.0	16.3	63		
Bhimkund	0830	23.9	20.2	18.3	20.8	70	...	5.4	...	2.7	0	0	22	3	8	1	0	0	1	2	7	8	0	
	1730	25.5	20.9	18.0	20.9	64	...	5.6	...	1.9	0	0	14	2	6	0	0	2	3	1	0	16	0	
Narbada Catchment Punasa	0830	23.8	17.2	12.3	14.2	49		
	1730	28.9	21.0	15.8	18.4	47		
Bagra Tawa	0830	20.5	15.8	12.2	14.2	59	...	1.3	...	6.0	0	0	26	2	17	3	0	0	2	2	0	4	0	
	1730	25.5	19.4	15.2	18.7	54	...	1.5	...	1.4	0	0	9	1	3	2	2	0	1	0	0	21	0	
Thikri	0830	22.5	18.9	16.7	19.0	72	...	2.3		
	1730	...	...	...	...	16.9	15.5	15.0	16.7	85	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Dharoi	0830	21.4	15.4	9.8	12.6	49		
	1730	...	...	...	...	29.1	19.2	11.7	14.2	35	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ganga Catchment Mukhimpur	0830	14.2	8.8	2.7	7.4	45	...	1.4		
	1730	...	...	...	...	13.3	8.8	3.7	8.0	52	...	1.7	...	...	...	...	...	...	...	...	...	...	...	...	...
Tehri	0830	...	...	...	...	12.7	11.1	9.7	12.1	83	...	1.7	...	...	...	...	...	...	...	...	...	...	...	...	...
	1130	...	...	...	...	20.2	14.0	8.9	11.5	49	...	1.9	...	...	...	...	...	...	...	...	...	...	...	...	...
Gandak Catchment Gorkha	0830	21.0	15.0	10.4	12.7	51	..	1.7		
	1730	...	...	...	...	17.6	14.7	12.5	14.7	73	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pokhara	0830	...	...	...	...	18.1	15.3	13.3	15.3	74	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	1730	...	...	...	...	18.8	16.2	14.7	16.6	76	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Nawakot	0830	...	...	...	...	18.8	15.5	13.3	15.2	70	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	1730	...	...	...	...	19.7	15.6	12.5	14.7	63	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Jomosom	0830	...	...	...	...	7.9	3.4	-1.7	5.3	50	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	1730	...	...	...	...	10.8	7.0	3.9	7.9	61	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Timure	0830	...	...	...	...	8.5	5.9	3.3	7.6	69	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	1730	...	...	...	...	13.4	10.6	8.4	11.0	72	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Gogra Catchment (Trans Himalayan Region). Daiilekh	0830	...	...	...	...	14.3	11.2	8.7	11.1	68	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	1730	...	...	...	...	16.3	13.1	10.5	12.8	69	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Gogra Catchment Dandelidhura	0830	...	...	...	...	13.2	9.1	5.5	8.9	59	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	1730	...	...	...	...	13.1	9.3	6.2	9.3	62	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sallyana	0830	...	...	...	...	22.3	18.0	15.1	17.2	64	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	1730	...	...	...	...	22.8	20.0	18.3	21.1	76	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Butwal	0830		
	1730		
Bagmati Catchment Katmandu †	0830	1324		
	1130	„	...	...	...	...</																		

TABLE III.—SUMMARY OF OBSERVATIONS AT FIXED HOURS—NOVEMBER, 1958 (KARTIKA 10—AGRAHAYANA 9, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars		Mean temperature in °C			Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Octas)		Wind speed (km. p.h.)	No. of observations														
			At mean sea level or height in ft.m. of nearest standard barometric level		At station level	Departure from normal	Dry bulb				Mean amount	Departure from normal		N		NE	E	SE	S	SW	W	NW	Calm	Variable				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories—Contd.																												
Kosi Catchment																												
Chautara	0830	..	..	..	..	..	14.6	12.1	10.1	12.5	75	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	..	18.2	13.0	9.3	11.7	56	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Okhaldhunga	· (R)	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	(R)	1130	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	(R)	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Barahkhetra	· ·	0830	146	1017.6	1000.5	..	18.2	16.2	14.7	16.9	81	...	0.8	...	8.0	0	0	29	2	5	3	3	2	8	2	4	1	0
		1130	"	1015.3	998.6	..	25.6	20.1	16.7	19.0	58	...	1.1	...	7.4	0	0	25	0	0	0	1	0	16	6	2	5	0
		1730	"	1013.6	996.7	..	20.5	18.4	17.0	19.4	81	...	1.3	...	8.2	0	0	29	0	3	15	11	0	0	0	1	0	0
Angbung	· · (R)	0830	..	..	..	..	..	14.0	10.9	8.5	11.1	70	...	3.5	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Taplejung	· · ·	0830	..	..	..	..	..	17.1	13.0	9.7	12.3	62	...	3.8	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		1130	..	..	..	..	..	14.5	11.0	8.0	10.9	65	...	4.7	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		1730	..	..	..	..	..	14.4	11.6	9.3	11.7	71	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Taplethok	· · ·	0830	..	..	..	..	..	8.0	4.9	1.9	7.0	65	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Wallungchung Gola	·	0830	..	..	..	..	..	4.3	3.3	2.4	7.2	87	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bhojpur	· · ·	0830	..	..	..	..	..	16.3	12.7	10.2	12.3	67	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		1730	..	..	..	..	..	13.9	11.8	10.2	12.5	78	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chainpur	· · ·	0830	..	..	..	..	..	17.1	13.9	11.4	13.5	70	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		1730	..	..	..	..	..	16.8	13.8	11.3	13.5	70	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tista Catchment																												
Gangtok	· · ·	0830	1812	1542.4	823.5	..	12.6	10.2	8.1	10.9	76	...	3.5	...	2.1	0	0	15	3	5	0	2	1	1	2	1	15	0
		1130	"	1527.3	822.4	..	15.8	12.6	10.3	12.5	71	...	3.9	...	4.7	0	0	28	0	0	0	1	10	10	6	1	2	0
		1730	"	1517.0	821.0	..	12.5	10.9	9.7	12.0	84	...	4.9	...	2.9	0	0	21	0	2	2	11	4	1	0	1	9	0
Geyzing	· · ·	0830	..	..	..	..	..	15.5	12.5	10.4	12.6	71	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		1730	..	..	..	..	..	14.2	12.3	10.9	13.1	81	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

(R) Register not received.

MONTHLY MEANS OF UPPER WINDS
NOVEMBER, 1958 (KARTIKA 10—AGRAHAYANA 9, 1880 SAKA)

During the month, observations of velocity and direction of upper winds were made at 55 stations in India. Out of these, at 43 stations all the observations were taken by means of pilot balloons and at 12 stations some observations were made by means of pilot balloons while the other observations by the radiowind method. Particulars of the stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the table overleaf. All radiowind ~~ascents~~ have been indicated by means of an asterisk (*) against the scheduled hours.

Data from ascents made at the ~~scheduled~~ time or within two hours on either side of the scheduled times of regular observations ~~have~~ been used for averaging.

Data upto 9.0 km. a. m. s. l. are given under Table IV and data above 9.0 km. a. m. s. l. under Table V.

In Tables IV and V :

n—represents the number of observations,

V—represents the mean wind speed in knots irrespective of direction,

v—represents the resultant mean velocity in knots,

D—represents the direction of the resultant mean wind in degrees East of North.

Mean and resultant winds are given in this publication for the following heights:

Surface, 0.15 km. a. g., 0.3, 0.6, 0.9, 1.5, 2.1, 3.0, 3.6, 4.5, 5.4, 6.0, 7.2, 9.0, 10.5, 12.0, 14.1, 16.2, 18.0, 21.0, 24.0, 27.0, 30.0, 33.0 and 36.0 km. a. m. s. l. Of these, the levels 1.5, 3.0, 5.4, 7.2, 9.0, 12.0, 14.1 and 16.2 km. a. m. s. l. are considered as the best approximations to the standard pressure levels 850, 700, 500, 400, 300, 200, 150 and 100 mb. respectively.

Particulars of Pilot Balloon and Rawin Stations in India

Station	Lat. N°	Long. E	Height of Anemometer head a. m. s. l. in metres	Date of opening	Approximate times of flight (IST)		
Agartala	23°53'	91°15'	17	28th November 1951	0530	1730	2330
Ahmedabad	23°04'	72°38'	61	19th May 1928	0530	1730	2330
Amausi	26°45'	80°53'	132	20th November 1950	0530	1730	2330
Ambala	30°23'	76°46'	279	1st April 1941	0530	1730	2330
Amritsar	31°38'	74°52'	243	21st June 1957	0530*	1730*	
Anantapur	14°41'	77°37'	364	12th February 1946	0530	1730	2330
Asansoi	23°41'	86°59'	135	29th May 1942	0530	1730	2330
Baghdogra	26°38'	88°19'	140	7th June 1963	0530	1730	2330
Bairagarh	23°17'	77°21'	532	26th February 1943	0530	1730	2330
Bamrauli	25°27'	81°44'	103	28th February 1930	0530*	1130	1730* 2330
Bangalore	12°58'	77°35'	936	19th May 1915	0530	1730	2330
Bareilly	28°22'	79°24'	180	12th January 1943	0530	1730	
Begumpet	17°27'	78°28'	543	1st September 1929	0530	1730	2330
Bhagalpur	25°14'	86°57'	61	19th May 1950	0530	1730	
Bhubaneshwar	20°15'	85°50'	55	5th December 1942	0530	1730	2330
Bhuj	23°15'	69°48'	111	14th September 1937	0530	1730	2330
Bikaner	28°00'	73°18'	229	18th October 1946	0530	1730	2330
Chikalthana	19°51'	75°24'	583	7th October 1951	0530	1730	2330
Cochin†	09°56'	76°14'	3	16th March 1942	0530	1730	2330
Darjeeling	27°03'	88°16'	2115	21st May 1956	0830	1730	
Dehra Dun	30°19'	78°03'	692	1st October 1958	0530	1730	
Dum Dum	32°39'	88°27'	13	14th May 1921	0530*	1130	1730* 2330
Gadag	15°25'	75°38'	650	3rd May 1943	0530	1730	2330
Gannavaram	16°32'	80°48'	34	8th April 1942	0530	1730	2330
Gauhati	26°05'	91°43'	51	12th March 1955	0530*	1130	1730* 2330
Gaya	24°45'	84°57'	119	19th March 1937	0530	1730	2330
Gopalpur	19°16'	84°53'	24	15th February 1946	0530	1730	2330
Gorakhpur	26°45'	83°22'	83	5th January 1943	0530	1730	
Gwalior	26°14'	78°15'	208	7th May 1938	0530	1730	2330
Imphal	24°51'	93°58'	805	8th March 1952	0530	1730	2330
Jabalpur	23°10'	79°57'	402	30th July 1928	0530	1730	2330
Jagdalpur	19°05'	82°02'	562	25th March 1948	0530	1730	2330
Jaipur	26°49'	75°48'	404	6th June 1953	0530	1730	
Jamshedpur	22°49'	86°11'	147	23rd July 1942	0530	1730	
Jharsuguda	21°55'	84°05'	240	1st May 1944	0530	1730	2330
Jodhpur	26°18'	73°01'	229	15th October 1934	0530*	1130	1730* 2330
Madras	13°00'	80°11'	29	8th April 1926	0530*	1130	1730* 2330
Mangalore	12°52'	74°51'	40	4th June 1928	0530	1730	2330
Minicoy	08°18'	73°00'	16	14th April 1941	0530	1730	2330
Mohanbari	27°29'	95°01'	112	1st June 1948	0530	1730	2330
Nagpur	21°06'	79°03'	316	23rd April 1943	0530*	1130	1730* 2330
Nanpara	27°50'	81°30'	142	23rd April 1957	0530	1730	
New Delhi	28°35'	77°12'	227	20th October 1936	0530*	1130	1730* 2330
Poona	18°32'	73°51'	593	5th January 1925	0530	1730	2330
Port Blair	11°40'	92°43'	93	29th October 1945	0530*	1130	1730* 2330
Raipur	21°14'	81°39'	308	15th July 1944	0530	1730	2330
Raxaul	26°59'	84°51'	83	28th October 1957	0530	1730	
Santa Cruz	19°07'	72°51'	14	14th May 1933	0530*	1130	1730* 2330
Tezpur	26°37'	92°47'	79	12th August 1932	0530	1730	2330
Tiruchirapalli	10°46'	78°43'	96	22nd June 1936	0530	1730	2330
Trivandrum	08°29'	76°57'	73	8th December 1928	0530*	1130	1730* 2330
Udaipur	24°35'	73°42'	587	24th June 1947	0530	1730	2330
Vengurla	15°52'	73°38'	8	22nd November 1941	0530	1730	2330
Veraval	20°54'	70°22'	17	13th October 1941	0530*	1130	1730* 2330
Visakhapatnam	17°43'	83°14'	10	24th September 1928	0530	1730	2330

*Radiowind ascents.

†Naval Meteorological Office.

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

November 1958 (KARTIKA 10—AGRAHAYANA 9, 1880 SAKA)

Station	AGARTALA								AHMEDABAD																
	0530				1730				2330				0530				1730				2330				
Time in I. S. T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Ht. in Km.																									
Surface . .	30	1·0	0·7	056	30	1·6	0·9	350	30	1·1	0·6	095	30	4·5	4·2	061	30	3·3	2·4	060	30	2·9	2·1	046	
0·15 a. g. .	30	7·3	4·7	056	29	6·3	4·9	345	30	4·6	4·2	020	30	17·9	16·5	081	30	7·5	5·4	045	30	12·2	10·5	060	
0·3 a. s. l. .	30	7·3	4·3	041	29	5·3	3·5	007	30	6·6	3·5	018	30	17·1	15·7	086	30	7·7	5·3	044	30	11·8	10·0	065	
0·6 . .	30	6·6	4·0	026	29	5·0	2·4	018	30	5·5	1·8	351	30	14·8	13·3	093	30	8·0	6·3	053	30	11·1	9·9	067	
0·9 . .	30	6·2	2·6	008	29	5·3	0·9	348	30	5·7	1·2	304	30	11·7	10·2	097	30	8·1	6·5	057	30	9·9	8·9	071	
1·5 . .	30	8·3	1·7	308	29	7·7	3·9	265	30	7·5	4·2	255	29	8·1	5·5	096	30	8·5	6·1	064	30	10·2	7·6	092	
2·1 . .	30	9·1	5·5	267	28	10·6	6·7	269	29	7·5	6·8	249	29	7·9	3·7	151	30	7·2	2·3	078	30	9·1	4·9	111	
3·0 . .	28	13·0	8·7	269	28	12·3	9·3	280	27	13·0	10·1	266	29	7·6	1·1	180	30	7·6	2·1	225	29	6·8	2·0	208	
3·6 . .	25	13·5	10·4	282	21	11·1	6·5	290	20	13·6	9·9	273	5	7·2	1·4	083	30	9·7	3·3	249	5	7·6	4·7	262	
4·5 . .	20	12·9	7·9	281	17	12·9	9·2	281	12	11·4	5·6	261	1	6·0	6·0	040	30	13·1	7·6	251	1	8·0	8·0	290	
5·4 . .	20	13·8	9·7	273	14	15·7	13·5	264	8	11·5	9·3	258		28	15·5	10·7	252								
6·0 . .	15	13·2	8·3	275	9	14·1	11·3	253	5	9·2	8·3	232		27	20·0	15·2	251								
7·2 . .	11	14·5	11·7	277	4	9·7	2·2	330	4	10·7	5·4	200		15	24·7	21·0	360								
9·0 . .	6	17·5	15·2	288	3	8·3	8·0	311	2	9·5	9·3	249													
Station	AMAUSI								AMBALA																
Time in I. S. T.	0530				1730				2330				0530				1730				2330				
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Surface . .	30	1·8	1·5	313	30	2·2	1·7	303	30	1·9	1·6	295	30	3·2	2·5	323	30	3·2	3·0	306	30	4·5	4·2	317	
0·15 a. g. .	30	8·0	4·7	323	30	6·8	5·6	301	30	7·7	6·2	322	30	12·7	10·6	333	30	10·6	9·5	313	30	17·0	16·3	328	
0·3 a. s. l. .	30	7·9	4·7	323	30	6·8	5·6	301	30	7·9	5·7	325	30	5·4	3·4	331	30	5·1	4·6	303	30	6·2	5·9	325	
0·6 . .	30	7·0	4·6	318	30	7·6	6·3	302	30	8·0	6·5	318	30	12·7	10·9	327	30	12·7	11·7	316	30	16·0	15·2	303	
0·9 . .	30	7·6	4·9	313	30	8·2	7·1	307	30	8·5	7·4	305	30	12·0	10·3	321	30	13·3	12·4	319	30	13·1	12·3	327	
1·5 . .	30	12·3	8·3	300	30	10·4	8·7	305	30	11·2	9·5	303	30	10·4	8·0	317	30	11·7	10·7	321	30	11·3	10·0	318	
2·1 . .	25	11·4	7·1	292	27	9·9	7·6	303	26	9·4	6·6	286	30	11·2	8·1	323	30	11·8	8·4	327	30	9·8	6·3	308	
3·0 . .	16	8·6	4·2	300	25	11·2	9·1	303	16	8·4	5·0	299	30	8·7	6·1	301	30	10·5	5·8	313	29	9·8	5·1	291	
3·6 . .	10	9·8	6·7	297	23	12·7	10·1	295	5	10·2	5·1	260	17	9·8	7·0	277	30	11·2	7·2	296	15	11·3	7·1	263	
4·5 . .	1	17·0	17·0	315	15	14·6	11·2	282					6	20·8	15·8	252	28	13·7	10·8	288	11	16·6	14·4	266	
5·4 . .					11	19·8	16·1	274					3	20·0	19·6	230	27	20·0	18·1	275	7	19·6	18·6	261	
6·0 . .					6	23·2	17·3	279					3	16·0	16·0	231	25	25·4	23·7	274	7	27·7	26·8	258	
7·2 . .					1	14·0	14·0	280								15	33·7	32·2	262	2	26·0	25·9	238		
9·0 . .																7	55·4	54·3	255						

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

November 1958 (KARTIKA 10—AGRAHAYANA 9, 1880 SAKA)

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

November 1958 (KARTIKA 10—AGRAHAYANA 9, 1880 SAKA)

Station	BAIRAGARH								BAMRAULI																
	1730				2330				0530*				1130				1730 *				2330				
Time in I. S. T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Ht. in Km.																									
Surface . . .	30	4·8	4·4	045	30	4·0	3·8	044	30	1·1	0·5	273	30	2·6	1·4	334	30	2·1	1·7	335	30	1·1	0·7	343	
0·15 a. g. . .	30	8·3	7·7	043	30	13·9	13·1	060	28	8·7	2·1	353	30	3·9	1·6	346	26	7·4	6·1	319	29	8·4	5·7	348	
0·3 a. m. s. l. . .									28	8·7	2·1	353	30	3·8	1·5	336	26	7·4	6·1	319	29	7·9	5·5	344	
0·6 „ . . .	30	8·0	7·5	042	30	12·8	12·2	058	28	7·3	2·5	342	30	4·8	2·7	328	26	6·7	5·5	315	29	7·6	5·4	328	
0·9 „ . . .	30	8·3	7·6	046	30	12·2	11·6	064	28	7·6	3·7	321	30	6·6	4·4	316	26	7·2	5·9	312	30	8·1	5·9	311	
1·5 „ . . .	30	7·1	6·0	045	30	8·2	5·8	079	28	8·1	5·7	304	30	10·4	7·3	309	26	9·0	7·6	307	29	9·7	7·4	304	
2·1 „ . . .	30	6·6	4·3	036	30	6·8	1·7	083	27	10·8	7·1	297	28	12·6	8·4	290	26	9·8	8·3	301	28	10·3	7·5	288	
3·0 „ . . .	28	7·1	1·2	334	28	7·4	1·8	281	27	12·6	8·7	301	27	12·4	8·2	302	26	13·1	10·3	298	23	9·6	5·9	277	
3·6 „ . . .	27	8·0	2·9	297	9	6·1	2·5	355	27	13·5	10·3	301	25	11·2	7·8	291	26	13·2	10·9	295	6	11·2	7·3	272	
4·5 „ . . .	26	10·7	6·6	271	1	11·0	11·0	310	27	13·6	11·6	279	24	14·1	11·2	273	26	15·0	12·0	288	2	20·0	16·4	264	
5·4 „ . . .	22	14·8	10·8	264					27	19·6	16·1	272	20	17·5	15·1	274	26	19·1	16·5	280	1	17·0	17·0	250	
6·0 „ . . .	22	18·7	14·4	268					27	22·6	16·3	268	19	20·9	17·6	274	26	24·3	21·5	276					
7·2 „ . . .	11	26·5	22·4	257					26	29·4	26·1	264	8	26·4	22·2	274	26	30·9	27·3	267					
9·0 „ . . .	1	31·0	31·0	315					19	43·2	40·6	255	2	32·5	32·5	286	25	42·7	39·8	262					
Station	BANGALORE								BAREILLY								BEGUMPET								
Time in I. S. T.	0530				1730				2330				0530				1730				0530				
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Surface . . .	30	6·4	4·1	077	30	7·0	4·9	072	30	8·0	5·4	076	30	1·8	1·1	344	30	2·4	2·2	297	30	2·7	2·1	081	
0·15 a. g. . .	26	11·4	9·2	078	28	9·2	6·2	069	29	14·1	10·6	079	30	8·2	5·4	324	30	7·8	6·7	295	29	10·1	7·8	080	
0·3 a. m. s. l. . .													30	8·3	5·5	332	30	7·5	6·4	296					
0·6 „ . . .													30	8·8	6·3	309	30	8·6	7·6	300	29	7·0	5·2	066	
0·9 „ . . .													30	9·0	7·1	313	30	9·2	8·4	305	28	11·3	9·1	086	
1·5 „ . . .	26	11·0	7·2	056	28	9·9	6·3	067	28	12·7	9·3	070	30	11·1	9·2	324	30	11·5	10·3	314	24	8·8	7·3	058	
2·1 „ . . .	26	8·8	4·0	006	27	8·3	4·9	040	25	8·2	4·9	011	30	11·5	8·6	320	30	12·6	10·5	318	23	9·7	6·1	028	
3·0 „ . . .	18	8·0	2·2	004	20	7·7	3·6	008	20	7·7	1·9	354	27	13·7	8·5	285	29	11·5	8·0	305	21	10·9	6·3	024	
3·6 „ . . .	16	7·3	1·6	085	15	8·4	2·8	021	19	7·4	2·0	066	19	12·2	9·7	276	28	11·9	9·3	294	18	10·2	5·5	031	
4·5 „ . . .	14	7·4	2·7	096	13	9·6	3·7	084	13	9·5	5·0	098	8	16·9	13·3	267	28	16·1	13·9	289	17	11·2	5·2	030	
5·4 „ . . .	6	6·5	2·9	095	10	7·5	4·1	052	10	10·9	8·0	092	5	16·8	15·7	259	27	21·7	18·8	276	14	11·3	6·5	021	
6·0 „ . . .	4	8·3	4·4	099	10	10·1	7·4	063	7	10·0	7·6	093					24	25·8	23·1	272	12	12·9	8·2	350	
7·2 „ . . .	2	6·0	4·2	092	8	8·7	6·5	070	4	9·7	6·3	107					13	36·0	34·6	266	8	10·9	9·5	294	
9·0 „ . . .					4	14·7	11·0	043									25	42·7	39·8	262	3	13·3	13·3	280	

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

November 1958 (KARTIKA 10—AGRAHAYANA 9, 1880 SAKA)

Station	BEGUMPET						BHAGALPUR						BHUBANESHWAR							
Time in I. S. T.	1730			2330			0530			1730			0530			1730				
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	5.7	4.5	061	30	3.5	3.0	070	30	1.7	0.8	264	30	2.1	1.6	318	30	4.9	4.5	010
0.15 a. g. . .	29	9.3	7.8	060	28	12.3	9.9	072	30	5.5	3.3	356	30	4.9	4.0	330	28	13.8	12.2	028
0.3 a. m. s. l. . .									30	5.5	3.8	003	30	4.5	3.7	325	28	14.4	12.0	046
0.6 " . .	29	9.3	7.3	060	28	7.6	6.3	069	30	5.5	4.1	356	30	4.5	3.6	318	28	14.4	11.5	053
0.9 " . .	28	10.4	8.6	063	28	13.7	11.3	077	30	5.6	3.0	337	30	4.8	3.3	297	28	13.3	10.0	059
1.5 " . .	26	9.1	8.0	052	28	11.1	9.1	074	28	7.7	2.5	317	30	7.8	4.0	283	27	13.0	8.6	054
2.1 " . .	26	8.9	6.9	054	27	9.3	5.0	068	27	9.5	5.3	301	28	10.5	8.6	282	22	12.5	5.3	053
3.0 " . .	24	10.6	3.5	040	24	8.4	3.5	061	19	12.3	10.5	287	17	10.8	9.3	292	15	9.2	1.7	059
3.6 " . .	21	8.9	2.2	058	9	10.0	4.1	108	15	11.8	9.3	287	9	9.4	7.4	309	10	7.7	3.2	056
4.5 " . .	18	8.1	2.3	084	1	7.0	7.0	240	9	12.1	10.6	291	3	16.3	14.8	296	2	8.0	8.0	051
5.4 " . .	16	8.6	2.1	050	1	7.0	7.0	300	7	19.0	15.4	237	2	15.5	13.6	295	1	12.0	12.0	065
6.0 " . .	13	9.3	2.3	076					6	23.3	20.7	271	1	23.0	23.0	330	1	8.0	8.0	085
7.2 " . .	8	9.4	2.5	200					4	31.0	24.7	258								
9.0 " . .	4	16.3	15.7	227					1	39.0	39.0	295								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

November 1958 (KARTIKA 10—AGRAHAYANA 9, 1880 SAKA)

Station	BIKANER				CHIKALTHANA								COCHIN											
	2330				0530				1730				2330				0530				1730			
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	2.2	2.2	041	30	2.5	2.4	083	30	3.8	3.0	060	30	2.7	2.6	059	30	1.0	0.2	334	30	4.9	4.0	239
0.15 a. g. .	30	10.5	8.4	075	30	12.4	11.8	084	30	8.3	6.6	062	30	14.1	13.2	063	28	5.2	2.8	074	26	7.0	5.8	260
0.3 a. m. s. l. .	30	9.2	7.5	072													28	5.8	2.0	019	26	7.3	6.0	261
0.6 . .	30	9.1	7.5	082													28	5.7	1.8	349	26	5.9	3.7	280
0.9 . .	30	7.9	4.0	093	30	14.9	14.0	094	30	7.8	6.5	060	30	15.5	14.7	070	28	5.4	0.7	017	26	6.2	2.0	331
1.5 . .	29	6.9	1.7	226	27	12.9	11.7	083	30	8.2	6.4	061	28	12.5	11.5	079	26	7.7	4.6	039	26	9.3	6.2	038
2.1 . .	29	8.9	5.6	257	26	9.5	5.5	056	29	8.3	6.7	069	28	8.6	5.9	088	25	9.7	6.8	050	24	8.5	4.4	056
3.0 . .	27	10.9	7.9	267	25	9.4	3.3	035	22	7.9	4.0	069	24	7.5	0.8	050	21	9.5	3.6	057	13	11.9	0.4	314
3.6 . .	21	12.9	10.6	266	20	9.7	4.9	061	20	6.9	2.7	042	17	7.9	1.3	078	20	9.1	3.6	070	12	13.0	1.0	255
4.5 . .	5	25.6	24.6	261	10	9.1	1.9	355	15	7.2	0.9	326	10	8.1	1.0	322	14	10.7	3.7	113	9	16.1	5.4	219
5.4 . .					4	11.5	5.3	312	13	11.4	1.3	310	6	10.2	4.7	242	7	6.6	3.9	111	5	10.2	2.1	037
6.0 . .					3	16.7	8.7	350	13	14.3	3.0	283	4	10.5	7.1	226	4	6.0	4.5	101	1	16.0	16.0	050
7.2 . .									7	18.1	9.5	299	1	17.0	17.0	240	4	7.0	4.3	100				
9.0 . .									4	20.5	17.0	291					3	9.3	5.4	079				
Station	COCHIN				DARJEELING								DEHRA DUN				DUM DUM							
Time in I.S.T.	2330				0530				1730				0530				1730				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	1.9	0.6	061	30	0.7	0.4	112	30	1.3	1.2	246	30	1.9	1.7	016	30	0.9	0.7	253	30	0.7	0.6	015
0.15 a. g. .	15	5.9	3.7	121	15	3.0	2.2	115	10	2.4	0.5	359	30	2.9	1.4	060	30	5.0	4.1	288	30	8.2	6.1	025
0.3 a. m. s. l. .	15	5.3	2.9	13.2																30	8.6	6.1	026	
0.6 . .	15	5.9	3.0	193																30	9.1	6.6	031	
0.9 . .	15	5.7	3.2	203												30	2.4	1.1	082	30	5.1	4.4	281	
1.5 . .	15	7.9	3.0	168												30	4.1	1.1	216	30	4.1	2.7	322	
2.1 . .	12	9.7	2.6	130												30	4.7	1.1	302	30	5.2	2.3	327	
3.0 . .	6	12.2	3.5	198	15	4.3	1.9	067	10	5.7	3.5	025	29	8.3	2.4	311	28	7.9	2.8	311	30	11.9	6.7	292
3.6 . .	3	10.0	6.8	089	15	14.3	11.5	296	9	11.2	4.7	268	26	9.5	5.0	294	27	8.7	3.7	306	...	...	...	...
4.5 . .	1	11.0	11.0	105	13	18.3	13.2	283	7	14.3	13.8	271	20	15.4	9.5	259	23	11.8	9.0	280	30	14.5	10.5	299
5.4 . .					10	21.1	20.0	281	6	28.7	24.8	263	8	26.1	22.0	265	21	19.5	18.2	273	30	14.2	9.9	296
6.0 . .					9	25.2	23.0	284	1	29.0	29.0	265	4	27.7	23.7	272	20	27.4	26.0	269	30	15.5	5.3	308
7.2 . .					5	35.4	31.6	267								20	41.7	37.5	267	30	20.3	14.0	280	
9.0 . .					1	39.0	39.0	325								2	75.0	74.7	259	24	28.3	24.6	269	

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

November 1958 (KARTIKA 10—AGRAHAYANA 9, 1880 SAKA)

Station	DUM DUM								GADAG																
	1130				1730*				2330				0530				1730				2330				
Time in I. S. T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Surface . .	30	3·5	2·7	014	30	0·4	0·2	174	30	1·1	0·5	001	30	5·2	4·1	076	30	5·5	4·2	067	30	4·8	3·6	072	
0·15 a. g. .	30	6·0	4·0	021	30	6·9	3·4	335	30	9·5	2·1	015	29	13·7	11·3	097	29	9·9	7·2	062	28	14·2	11·3	079	
0·3 a. m. s. l. .	30	6·2	4·5	029	30	7·1	3·5	353	30	9·0	1·7	030													
0·6 „ .	30	6·6	4·3	030	30	7·2	4·0	007	30	7·6	1·9	045													
0·9 „ .	30	6·3	5·7	032	30	7·8	4·7	014	30	6·9	1·7	034	29	13·9	11·9	097	29	10·3	7·8	062	28	14·7	12·2	077	
1·5 „ .	29	8·5	2·6	006	30	7·7	3·9	026	30	6·5	1·1	327	29	13·1	11·8	073	29	11·1	8·9	061	27	12·5	11·0	070	
2·1 „ .	27	9·2	2·7	317	30	8·0	2·9	324	27	7·4	2·5	298	28	10·7	8·3	055	27	10·6	8·5	058	26	11·7	10·0	057	
3·0 „ .	23	11·6	5·3	282	30	12·6	8·3	296	21	9·0	4·7	296	26	10·2	5·5	046	25	9·0	4·8	040	25	9·2	5·0	035	
3·6 „ .	18	12·3	4·8	288	..	..	..	..	7	11·6	9·7	300	24	9·8	2·4	032	23	8·9	3·0	030	23	9·1	4·2	023
4·5 „ .	17	12·4	5·7	308	30	14·2	11·0	300	3	6·0	2·3	324	18	7·3	2·2	088	16	10·4	3·7	057	18	8·3	3·3	040	
5·4 „ .	16	14·6	7·6	309	30	15·4	11·9	302	1	6·0	6·0	300	15	10·7	5·1	067	12	11·8	5·7	087	14	8·8	3·4	107	
6·0 „ .	15	16·7	9·2	305	30	16·3	11·1	303	1	7·0	7·0	310	11	13·0	8·2	072	11	11·4	6·5	090	11	9·4	5·1	133	
7·2 „ .	9	20·6	10·7	259	30	21·5	16·0	275					1	3·0	3·0	050	7	10·0	8·1	117	4	13·3	9·8	132	
9·0 „ .	6	22·2	18·9	258	28	27·6	24·6	267									5	12·0	10·0	143					
Station	GANNAVARAM								GAUHATI																
Time in I. S. T.	0530				1730				2330				0530*				1130				1730*				
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Surface . .	30	3·6	3·1	035	30	4·8	3·8	071	30	3·3	3·0	060	30	0·5	0·5	090	30	3·0	2·5	030	29	0·2	0·2	050	
0·15 a. g. .	28	9·8	8·5	042	28	8·8	6·7	081	29	10·0	7·9	084	30	5·1	3·8	088	30	5·0	4·5	043	29	6·5	4·7	052	
0·3 a.m.s. l. .	28	11·3	10·1	065	28	9·2	7·2	085	29	11·4	9·4	083	30	6·3	4·9	088	30	5·4	4·6	062	29	6·1	4·5	055	
0·6 „ .	28	11·6	10·5	071	28	9·9	7·7	077	29	12·2	10·1	078	30	7·9	6·6	090	30	7·3	6·4	078	29	5·8	4·0	073	
0·9 „ .	28	11·2	10·0	070	27	9·3	7·1	069	26	11·7	9·5	065	30	9·0	7·3	088	30	8·3	7·2	090	29	5·5	3·6	105	
1·5 „ .	26	11·0	8·3	060	27	9·6	7·1	058	26	11·5	7·9	064	30	8·1	6·2	088	28	7·3	4·0	119	29	6·1	2·2	195	
2·1 „ .	25	10·3	5·3	054	25	10·2	6·1	033	24	9·7	4·9	049	30	7·7	0·3	172	27	8·3	3·9	201	29	7·6	5·5	240	
3·0 „ .	16	9·4	2·4	115	20	9·5	3·9	040	16	6·7	1·2	085	30	11·9	5·9	267	26	13·4	9·7	250	29	11·8	8·3	254	
3·6 „ .	14	11·8	2·4	090	19	9·3	1·5	032	11	6·0	1·6	156	30	16·9	13·8	275	23	18·7	14·9	268	29	16·9	15·1	272	
4·5 „ .	12	9·6	3·6	080	15	11·3	4·3	031	5	8·0	0·8	315	30	23·1	20·5	280	19	23·0	20·9	277	29	21·3	20·3	278	
5·4 „ .	10	12·4	7·2	081	14	8·6	2·3	074	2	6·0	5·0	121	30	26·2	23·6	278	18	24·9	22·4	276	28	24·7	22·5	282	
6·0 „ .	6	8·7	6·2	047	11	5·9	1·8	083					30	27·8	25·2	284	15	25·0	23·5	275	29	28·0	25·2	281	
7·2 „ .	2	7·5	7·1	349	3	7·0	3·0	061					30	32·1	25·2	280	12	31·7	28·9	273	29	34·0	32·1	278	
9·0 „ .					2	6·5	4·7	265					17	47·9	43·3	274	9	46·3	41·6	281	15	47·7	46·1	277	

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

November 1958 (KARTIKA 10—AGRAHAYANA 9, 1880 SAKA)

Station	GAUHATI				GAYA								GOPALPUR											
Time in I. S. T.	2330				0350				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	30	0·5	0·2	045	30	1·3	0·8	184	30	2·5	2·2	356	30	0·7	0·4	190	30	3·8	3·4	335	30	4·0	2·8	055
0·15 a. g. .	29	4·7	2·3	097	30	6·7	1·2	235	30	7·4	6·1	345	30	6·1	2·6	026	27	13·4	11·2	348	28	10·8	8·0	032
0·3 a. m. s. l. .	29	4·9	3·5	084	30	6·0	0·4	016	30	7·2	5·7	345	30	5·8	2·9	018	27	13·2	10·7	025	28	11·6	8·9	055
0·6 . , .	29	6·2	5·2	080	30	6·2	2·8	028	30	6·1	4·8	340	30	5·4	3·1	358	27	13·6	10·9	040	28	11·5	8·9	047
0·9 . , .	29	5·4	3·5	089	30	6·3	3·1	353	30	5·7	3·6	320	29	5·7	3·2	328	27	14·1	11·5	048	27	12·6	9·9	040
1·5 . , .	28	5·5	1·3	131	30	7·6	4·8	303	30	7·4	5·7	295	30	7·9	6·1	275	27	13·5	10·0	047	27	12·9	8·2	031
2·1 . , .	27	6·3	1·6	216	30	9·9	7·1	299	30	11·1	8·5	286	28	10·2	7·8	287	25	13·5	8·3	040	23	13·7	6·8	023
3·0 . , .	24	13·9	9·5	269	26	12·8	7·3	297	23	11·9	8·3	306	24	11·5	7·8	297	21	10·0	2·2	050	22	10·4	4·5	022
3·6 . , .	15	16·5	16·1	265	18	12·2	5·6	296	13	10·8	6·7	303	15	10·0	5·2	310	15	10·4	0·3	041	16	9·6	4·2	348
4·5 . , .	8	18·4	13·1	266	13	11·7	4·9	290	6	11·2	9·6	281	3	15·0	14·7	340	6	10·3	2·2	260	8	12·5	3·9	332
5·4 . , .	6	20·8	16·8	269	9	13·8	3·5	271	4	11·0	9·3	272					5	10·6	0·8	058	5	12·4	8·3	289
6·0 . , .	3	24·7	21·6	276	8	14·6	4·9	260	2	4·5	4·5	310					4	12·0	3·4	088	3	12·0	5·1	267
7·2 . , .	2	33·0	31·5	274	2	16·0	15·9	333									4	11·5	3·4	301				
9·0 . , .	1	64·0	64·0	230	1	32·0	32·8	295									3	14·6	13·4	324				

Station	GOPALPUR				GORAKHPUR				GWALIOR															
Time in I. S. T.	2330				0530				1730				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	30	2.9	2.5	354	30	1.9	0.4	287	30	1.7	1.6	260	30	0.8	0.4	220	30	1.2	1.1	343	30	0.5	0.3	174
0.15 a. g. .	29	9.7	6.7	027	30	6.0	4.9	299	30	5.9	5.1	286	30	6.6	3.9	009	30	7.2	6.6	348	30	7.6	5.2	019
0.3 a. m. s. l. .	29	10.7	7.6	043	30	5.5	3.9	295	30	5.8	5.1	284	30	5.8	3.0	359	30	6.3	5.9	347	30	6.4	4.2	019
0.6 „ .	29	11.9	8.8	056	30	5.9	4.5	288	30	5.8	5.3	282	30	7.1	4.4	019	30	7.8	7.1	348	30	6.9	5.1	004
0.9 „ .	28	12.1	9.3	053	30	6.0	3.8	283	30	6.1	4.7	284	30	7.8	5.7	001	30	7.8	7.0	344	30	7.2	5.4	335
1.5 „ .	26	13.4	9.7	049	30	8.6	2.9	267	30	8.0	3.7	283	30	10.5	8.2	344	30	9.5	8.3	335	30	9.8	7.5	328
2.1 „ .	21	12.0	6.5	049	30	10.6	4.5	283	30	11.5	7.0	293	29	10.3	7.6	333	29	11.8	9.6	335	30	9.9	6.7	312
3.0 „ .	18	10.0	4.4	047	27	12.0	8.6	291	27	13.3	11.0	298	29	9.9	5.8	300	29	11.0	8.7	301	29	9.0	6.0	304
3.6 „ .	14	10.4	3.9	064	14	12.9	12.9	291	21	12.8	10.1	295	23	12.0	7.7	279	29	12.3	9.8	294	25	10.2	7.3	276
4.5 „ .	7	8.9	5.4	011	2	9.0	8.7	234	13	16.1	14.2	288	16	15.4	10.4	282	29	16.3	13.4	278	11	13.1	10.3	254
5.4 „ .	3	10.3	4.1	068					8	18.6	15.2	296	6	14.2	13.3	269	28	20.2	17.6	269	4	17.7	15.5	243
6.0 „ .	1	9.0	9.0	061					4	22.3	20.2	309	4	18.3	17.2	274	26	24.4	21.8	269	1	16.0	16.0	245
7.2 „ .	1	18.0	18.0	290									3	22.0	20.9	273	21	32.3	28.6	261	1	21.0	21.0	270
9.0 „ .													2	15.5	13.5	279	8	52.4	48.6	253				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

November 1958 (KARTIKA 10—AGRAHAYANA 9, 1880 SAKA)

Station	IMPHAL								JABALPUR																			
	0530				1730				2330				0530				1730				2330							
Time in I. S. T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D				
	Surface	30	0.3	0.2	241	30	2.4	1.8	293	30	0.2	0.2	202	30	0.5	0.3	070	30	2.4	2.1	041	30	0.7	0.6	071			
0.15 a. g.	.	27	1.5	0.5	175	30	4.0	2.8	245	30	1.8	0.3	105	30	8.0	7.3	067	30	7.4	6.8	035	30	9.9	9.1	049			
0.3 a. m. s. l.	.																											
0.6	,																30	9.0	8.3	063	30	7.8	7.2	032	30	10.5	10.0	049
0.9	,	27	1.7	0.8	196	30	3.8	2.5	260	30	1.4	0.2	096	30	9.1	8.2	055	30	7.9	7.5	027	30	10.0	9.4	048			
1.5	,	27	3.9	2.3	085	30	5.6	3.6	208	30	3.7	1.3	196	30	7.3	4.6	041	30	6.7	5.9	016	30	6.7	4.6	041			
2.1	,	25	8.2	3.5	204	29	8.1	5.0	231	28	8.4	4.9	225	30	7.3	3.0	343	30	6.6	3.6	002	29	7.4	1.2	010			
3.0	,	22	12.4	9.2	265	25	12.7	10.5	266	23	13.7	11.2	270	28	7.0	2.9	323	30	7.9	3.5	336	29	7.4	2.4	332			
3.6	,	21	14.6	12.7	269	23	17.2	16.4	278	19	15.0	13.7	271	26	7.9	3.5	332	29	8.5	3.6	315	24	7.6	2.1	305			
4.5	,	17	16.0	14.9	272	9	12.0	10.6	269	6	11.2	10.2	262	24	14.0	4.5	267	29	11.5	6.2	288	7	11.1	6.8	277			
5.4	,	14	17.0	14.3	277	3	8.0	1.4	300	1	12.0	12.0	250	19	14.1	9.0	253	27	15.9	10.3	272	3	18.3	16.4	261			
6.0	,	12	17.0	14.7	271	2	7.5	4.2	260	1	13.0	13.0	270	13	41.4	11.9	242	25	17.2	13.5	270	3	21.0	18.1	263			
7.2	,	3	17.7	13.9	263	1	13.0	13.0	330								19	21.4	19.3	264	1	13.0	13.0	300				
9.0	,	1	21.0	21.0	225												6	27.8	23.7	269								

Station	JAGDALPUR								JAIPUR								JAMSHEDPUR								
	0530				1730				2330				0530				1730				0530				
Time in I. S. T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Surface	30	0.7	0.6	041	30	2.1	1.8	042	30	1.0	0.8	058	30	3.0	2.1	047	30	2.2	1.1	018	30	1.4	0.9	320	
0.15 a. g.	29	9.6	8.4	049	29	9.0	7.8	042	30	11.6	10.3	059	30	8.3	4.5	080	29	5.2	2.8	028	25	5.7	4.1	347	
0.3 a. m. s. l.	.																			25	5.4	4.1	001		
0.6	,	29	5.9	5.0	043	29	5.9	5.1	039	30	7.0	5.9	057	30	7.8	4.5	081	29	5.6	3.1	023	27	7.7	6.3	041
0.9	,	29	10.9	9.3	062	29	10.3	9.1	046	30	13.4	12.0	065	30	7.0	3.0	060	29	5.3	3.7	008	29	8.8	6.6	038
1.5	,	27	11.2	9.4	075	28	9.5	7.7	062	28	12.0	10.0	085	30	5.8	2.2	327	29	5.7	3.7	349	28	8.9	4.6	359
2.1	,	24	11.2	6.7	058	28	9.7	5.9	072	26	10.4	6.7	077	29	9.1	5.6	320	29	8.4	5.8	336	25	11.2	5.5	318
3.0	,	22	11.3	2.0	050	24	10.0	4.1	080	20	8.6	3.4	073	26	8.2	5.0	280	28	9.5	7.1	287	24	11.2	6.0	303
3.6	,	14	11.3	1.2	297	18	10.5	4.1	062	13	10.1	3.8	054	15	11.7	9.4	267	27	13.2	10.2	277	19	9.6	3.8	304
4.5	,	4	7.0	4.3	320	16	12.1	3.0	036	7	10.9	2.8	016	3	19.0	16.2	270	24	18.2	15.2	265	13	9.1	5.5	297
5.4	,	3	11.0	6.3	324	12	12.7	2.9	024	4	9.0	4.7	016	1	23.0	23.0	300	22	22.9	20.0	258	10	8.7	5.4	271
6.0	,	2	10.0	6.0	206	7	10.6	4.2	034	3	9.0	1.1	082					19	26.0	23.4	255	7	9.0	4.9	285
7.2	,					4	15.0	8.7	360	2	11.0	10.1	307					4	37.0	32.4	269	5	9.6	7.4	267
9.0	,					2	17.5	15.7	313								1	54.0	54.0	265	3	17.6	12.4	254	

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

November 1958 (KARTIKA 10—AGRAHAYANA 9, 1880 SAKA)

Station	JAMSHEDPUR				JHARSUGUDA								JODHPUR												
Time in I. S. T.	1730				0530				1730				2330				0530*				1130				
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Surface	.	30	2·2	1·7	063	30	3·6	3·3	023	30	2·3	1·2	084	30	2·3	1·8	053	30	6·5	6·3	040	30	3·3	2·4	065
0·15 a. g.	.	30	5·9	3·7	019	29	10·4	10·0	053	30	6·3	4·2	068	29	7·4	5·3	083	30	6·6	5·9	051	28	5·0	2·9	498
0·3 a. m. s. l.	.	30	6·0	3·6	046	29	9·7	9·3	040	30	5·8	3·6	068	29	6·6	4·6	072	30	6·4	6·0	051	28	4·4	2·4	085
0·6 „	.	30	6·5	4·3	037	29	9·6	8·2	065	30	6·8	4·5	055	29	8·3	6·0	080	30	6·9	4·4	077	28	5·6	3·0	111
0·9 „	.	30	6·8	4·4	028	29	9·2	7·2	059	30	7·5	5·2	047	29	7·6	5·3	074	30	7·1	3·5	112	28	6·4	3·4	118
1·5 „	.	30	8·2	2·8	343	28	8·3	4·2	051	29	8·9	5·4	026	27	7·5	4·5	043	30	6·6	1·6	046	29	7·3	3·0	130
2·1 „	.	29	10·9	5·4	325	28	8·8	2·9	029	28	10·1	6·5	017	25	8·4	3·3	015	30	6·5	1·4	243	27	7·2	2·3	076
3·0 „	.	28	11·7	6·8	303	19	7·5	2·8	352	26	10·0	4·1	345	22	9·2	3·6	317	30	8·7	3·8	270	26	7·4	2·7	250
3·6 „	.	20	8·7	4·3	309	11	5·8	1·4	273	20	10·0	4·8	308	15	6·5	3·8	280	30	11·7	7·2	265	25	9·3	7·1	255
4·5 „	.	12	6·7	3·8	310					7	6·3	2·7	306					30	17·4	15·3	258	25	14·9	13·0	266
5·4 „	.	2	9·0	4·1	052												29	25·3	23·1	261	24	23·0	20·4	261	
6·0 „	.	2	10·5	1·5	252												28	30·2	28·0	258	23	25·4	23·1	267	
7·2 „	.																28	38·5	36·4	260	16	34·2	30·7	260	
9·0 „	.																26	58·5	55·6	254	7	42·0	41·0	266	
Station	JODHPUR								MADRAS																
Time in I. S. T.	1730*				2330				0530*				1130				1730*				2330				
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Surface	.	30	5·0	3·3	050	30	5·1	4·9	051	30	5·1	3·1	036	30	8·6	5·3	013	30	7·3	4·9	059	30	5·5	3·2	011
0·15 a. g.	.	30	5·0	3·5	052	30	11·6	9·9	066	29	11·6	7·9	047	30	12·9	7·8	018	30	13·0	9·9	056	27	11·4	6·8	051
0·3 a. m. s. l.	.	30	5·0	3·4	050	30	10·0	8·5	062	29	12·2	8·4	044	30	14·0	8·3	018	30	13·3	9·8	055	27	13·4	7·9	053
0·6 „	.	30	4·7	3·0	054	30	10·6	9·1	076	29	12·7	8·5	039	28	14·4	8·3	022	30	13·6	9·8	048	27	14·0	8·1	054
0·9 „	.	30	5·4	3·4	051	30	9·3	7·7	087	29	13·8	9·1	035	28	15·1	8·9	029	30	14·0	7·9	022	27	14·5	8·4	049
1·5 „	.	30	6·6	2·3	059	30	7·5	3·4	106	29	13·6	8·1	037	20	14·7	8·3	045	30	13·4	7·7	030	27	12·0	7·0	040
2·1 „	.	30	7·6	1·2	284	29	8·4	2·9	184	29	12·2	6·5	040	15	15·9	4·4	055	30	11·9	6·0	029	27	11·2	4·9	029
3·0 „	.	29	8·1	5·1	260	28	9·0	4·5	276	29	11·2	3·8	054	10	15·1	4·2	042	30	10·6	4·9	063	24	9·9	4·9	032
3·6 „	.	28	11·9	9·6	250	14	14·2	10·8	255	29	11·0	3·7	070	10	15·3	4·3	037	30	10·6	6·0	082	19	8·3	3·0	045
4·5 „	.	28	17·9	15·4	258	1	24·0	24·0	250	29	10·2	4·3	085	9	11·8	3·2	110	30	10·5	6·7	089	5	7·2	5·3	140
5·4 „	.	28	24·8	22·5	256					29	10·7	6·5	092	8	14·1	8·3	059	30	10·4	6·4	083	1	10·0	10·0	180
6·0 „	.	28	29·5	26·4	257					29	10·9	7·8	091	8	13·4	6·4	100					1	11·0	11·0	150
7·2 „	.	27	35·7	35·2	257					29	11·3	8·3	107	7	13·4	7·7	115	30	11·7	7·1	095				
9·0 „	.	24	52·6	49·6	254					28	11·6	8·9	113	6	19·0	14·0	110	25	14·1	9·4	111				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

November 1958 (KARTIKA 10—AGRAHAYANA 9, 1880 SAKA)

Station	MANGALORE								MINICOY																
	0530				1730				2330				0530				1730				2330				
Time in I. S. T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
	Ht. in Km.																								
Surface . .	30	5.7	4.8	088	30	6.5	4.3	276	30	4.1	2.6	077	30	3.3	2.5	278	30	3.7	2.7	302	30	3.0	1.9	286	
0.15 a. g. .	30	7.7	3.7	067	29	8.8	5.9	275	29	6.5	0.5	356	30	7.3	4.4	276	30	8.1	5.7	307	30	6.9	3.3	313	
0.3 a. m. s. l. .	30	7.3	2.3	037	29	9.0	5.1	273	29	6.4	1.2	288	30	7.3	4.1	287	30	8.2	5.7	306	30	7.1	3.4	315	
0.6 „ .	30	7.2	1.9	024	28	6.5	3.0	279	29	6.1	1.5	316	30	7.2	3.9	293	30	8.1	5.8	307	30	7.0	3.6	320	
0.9 „ „ .	30	8.3	2.9	055	28	6.3	2.2	049	29	5.7	1.4	031	30	7.1	2.9	301	30	7.7	4.8	308	30	6.6	3.2	322	
1.5 „ „ .	28	11.0	7.2	091	28	9.9	7.6	067	25	9.3	7.1	073	30	8.4	0.6	337	28	8.2	2.8	307	29	8.4	1.8	346	
2.1 „ „ .	25	10.4	7.6	090	27	11.7	8.2	070	25	12.7	9.7	079	28	9.5	3.6	074	25	8.3	2.6	345	28	9.6	1.9	030	
					21	9.5	5.7	064																	
3.0 „ „ .	22	9.2	3.1	098					21	9.6	2.5	057	23	10.4	2.8	093	24	8.6	2.6	013	28	9.3	2.3	044	
3.6 „ „ .	7	6.6	4.9	050	20	8.8	4.0	066	15	8.1	3.0	075	15	8.5	5.1	067	23	9.8	2.4	012	23	9.6	5.0	071	
4.5 „ „ .					18	7.7	3.8	070	14	10.3	4.6	097	6	11.5	3.0	092	19	9.6	1.6	108	13	7.3	3.5	180	
5.4 „ „ .					14	9.2	5.1	079	6	10.2	7.6	054	3	6.7	6.1	070	14	8.9	4.7	092	1	13.0	13.0	360	
6.0 „ „ .					14	9.6	5.9	082	3	11.7	11.4	053	3	12.0	11.3	048	11	10.0	7.0	065	1	11.0	11.0	015	
7.2 „ „ .					8	11.3	7.3	116	2	24.0	23.7	066	3	15.0	14.0	048	5	12.4	10.6	089					
9.0 „ „ .					5	16.0	14.9	127					1	11.0	11.0	095	3	18.3	16.2	089					
Station	MOHANBARI								NAGPUR																
Time in I. S. T.	0530				1730				2330				0530*				1130				1730*				
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Surface . .	30	0.1	0.1	009	C	A	L	M	30	0.1	0.1	015	30	2.7	2.3	009	30	3.6	2.9	052	30	4.4	3.8	049	
0.15 a. g. .	30	8.3	7.3	054	30	4.3	3.8	054	30	5.6	5.2	039	30	11.9	11.3	053	30	5.4	4.4	058	30	9.3	7.9	043	
0.3 a. m. s. l. .	30	8.2	7.5	050	30	4.3	3.9	056	30	5.4	5.2	046													
0.6 „ „ .	30	5.7	3.5	042	30	3.9	3.2	058	30	5.1	4.7	052	30	10.8	10.2	060	30	6.4	5.8	067	30	8.0	6.4	053	
0.9 „ „ .	30	5.5	4.7	042	30	3.6	2.7	057	30	4.8	4.1	056	30	9.5	8.1	074	30	7.9	6.9	073	30	6.7	5.7	059	
1.5 „ „ .	30	4.0	1.1	8.3	30	3.7	1.6	152	29	4.1	1.9	098	30	9.1	5.8	080	27	8.4	6.0	165	30	7.3	5.6	050	
2.1 „ „ .	30	4.2	1.7	156	30	6.5	5.3	202	29	4.5	2.9	188	30	8.0	4.3	069	24	9.1	4.7	048	30	8.7	5.7	043	
3.0 „ „ .	30	5.8	2.1	252	29	7.4	5.8	219	27	7.1	5.3	236	30	8.6	3.3	064	21	7.9	4.1	077	30	7.9	3.6	041	
3.6 „ „ .	21	10.4	7.4	261	21	7.9	5.8	242	16	8.9	7.4	252	30	8.2	3.3	050	21	9.0	3.3	085	30	8.0	1.0	010	
4.5 „ „ .	17	28.7	25.2	268	7	22.3	18.6	265	9	22.9	21.9	261	30	10.1	1.3	008	20	10.9	2.1	164	30	9.7	1.9	326	
5.4 „ „ .	15	28.5	27.2	275	3	17.7	13.0	253	9	22.9	21.3	260	30	12.5	2.4	291	17	14.2	1.0	160	30	13.1	3.8	280	
6.0 „ „ .	11	25.2	21.3	288	1	12.0	12.0	325	1	25.0	25.0	335	30	12.7	5.4	263	16	12.4	5.1	229	30	13.4	5.4	271	
7.2 „ „ .	7	27.7	22.9	300	1	29.0	29.0	290					30	16.2	11.0	264	14	14.5	10.5	248	30	15.6	11.0	255	
9.0 „ „ .	1	17.0	17.0	005									29	23.6	20.7	248	10	22.0	19.3	240	29	20.7	18.6	254	

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

November 1958 (KARTIKA 10—AGRAHAYANA 9, 1880 SAKA)

Station	NAGPUR				NANPURA				NEW DELHI															
	2330				0530				1730				0530*				1130				1730*			
Time in I. S. T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	30	4.3	3.5	044	30	1.2	1.0	302	30	2.1	1.7	290	30	1.9	1.7	296	30	5.0	4.1	309	30	1.5	1.5	320
0.15 a. g. .	30	10.6	9.6	064	30	5.8	3.2	312	30	6.5	5.1	283	30	11.2	9.8	328	30	6.2	4.9	320	30	10.5	8.9	329
0.3 a. m. s. 1..					30	5.8	3.5	300	30	6.6	5.4	282	30	11.1	9.5	328	30	5.8	4.7	323	30	9.6	8.3	330
0.6 .. .	30	11.0	10.2	070	30	5.7	3.7	287	30	6.1	5.3	291	30	10.2	9.1	328	30	8.3	7.0	320	30	10.5	9.3	324
0.9 .. .	30	10.4	9.5	073	30	5.6	3.2	292	30	5.8	5.0	292	30	10.9	9.6	322	30	9.8	8.4	318	30	10.8	9.7	320
1.5 .. .	29	9.3	7.7	066	30	6.7	1.8	315	30	7.3	3.8	301	30	13.2	11.9	318	30	12.1	9.9	318	30	12.8	11.7	316
2.1 .. .	27	8.2	4.9	070	28	8.1	2.8	340	30	10.6	7.2	308	30	14.4	11.4	313	30	13.2	9.9	317	30	14.7	13.0	314
3.0 .. .	25	8.0	2.2	085	24	10.7	8.3	308	26	12.3	10.0	305	30	13.2	10.1	304	30	11.5	8.7	297	30	13.4	11.5	295
3.6 .. .	15	7.9	2.5	113	12	10.6	7.5	300	22	15.6	14.9	300	30	12.8	9.8	278	30	13.2	9.9	277	30	14.0	11.7	280
4.5 .. .	5	9.8	5.7	228	1	12.0	12.0	300	9	27.0	23.6	292	30	18.9	17.0	266	29	20.0	17.2	266	30	19.2	17.1	272
5.4 .. .	2	9.5	9.5	258								30	27.1	24.5	261	28	26.6	23.7	271	30	25.0	23.3	264	
6.0 .. .	1	14.0	14.0	235								30	31.7	28.8	262	28	30.3	27.2	265	30	30.3	28.7	263	
7.2 .. .												30	42.5	39.7	263	27	39.8	36.3	265	29	39.7	37.6	260	
9.0 .. .												29	61.4	58.1	260	17	50.9	47.1	263	28	57.6	54.1	259	
Station	NEW DELHI				POONA								PORT BLAIR											
Time in I. S. T.	2330				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	30	2.5	2.2	315	30	0.7	0.2	060	30	2.2	1.4	070	30	0.9	0.1	119	30	4.0	2.6	105	30	5.3	3.6	088
0.15 a. g. .	30	11.6	9.8	334	30	5.6	4.5	075	30	6.1	4.0	066	30	7.3	3.9	032	30	13.0	8.9	100	27	9.1	6.4	092
0.3 a. m. s. 1..	30	9.7	7.7	328													30	13.0	9.0	098	27	9.7	6.6	092
0.6 .. .	30	11.1	9.4	335	30	3.0	0.8	174	30	4.1	2.7	065	30	3.4	0.3	176	30	14.6	10.6	102	27	10.9	7.6	096
0.9 .. .	30	10.8	9.7	321	30	8.8	7.7	083	30	6.5	4.6	067	30	9.8	6.3	046	30	14.9	11.1	104	27	12.1	8.5	095
1.5 .. .	30	12.5	11.4	315	28	12.2	11.5	096	30	6.6	4.8	070	30	11.6	10.7	078	30	16.0	12.0	108	27	12.6	9.2	102
2.1 .. .	30	12.9	11.0	309	24	7.7	6.5	094	29	7.0	5.3	074	30	10.1	8.9	088	30	15.1	10.7	113	24	12.7	9.0	098
3.0 .. .	29	12.9	10.1	297	24	7.6	2.4	054	23	7.1	5.3	075	26	6.4	3.4	097	29	14.4	6.9	095	21	11.3	6.4	076
3.6 .. .	11	15.0	11.7	276	23	8.1	3.8	036	17	6.5	3.7	066	23	7.6	2.4	084	29	14.3	4.8	080	20	10.7	4.8	065
4.5 .. .	5	19.0	16.4	248	12	9.2	3.9	025	15	7.2	0.4	332	19	8.8	1.7	292	29	16.3	6.5	089	17	10.5	4.1	052
5.4 .. .									14	8.9	4.0	247	11	12.6	1.9	293	29	13.9	5.2	091	13	11.1	7.6	061
6.0 .. .									14	11.6	4.8	243	11	14.0	5.9	275	27	14.3	7.7	091	13	12.4	8.5	062
7.2 .. .									14	17.2	9.9	232	8	16.0	12.3	229	26	14.6	8.5	097	11	12.6	7.4	092
9.0 .. .									10	23.0	19.3	245					20	15.0	8.7	110	7	10.1	7.4	115

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS
Winds upto 9·0 Km. above mean sea level

November 1958 (KARTIKA 10—AGRAHAYANA 9, 1880 SAKA)

Station	PORT BLAIR								RAIPUR								RAXAUL							
	1730*				2330				0530				1730				2330				0530			
Time in I. S. T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
	Ht. in Km.																							
Surface .	30	4·7	2·9	085	30	4·0	2·7	082	30	2·9	2·5	034	30	3·0	2·6	053	30	2·2	2·0	067	30	0·1	0·1	090
0·15 a. g. .	30	14·2	8·9	084	30	7·2	4·9	091	28	12·2	11·2	050	30	8·3	7·6	048	29	9·8	9·1	067	30	3·3	1·0	344
0·3 a. m. s. l. .	30	14·1	8·6	085	30	7·2	4·9	091													30	3·2	2·2	297
0·6 „ .	30	13·9	8·6	095	30	7·1	5·0	096	28	12·6	11·7	061	30	9·2	8·5	050	29	10·0	9·2	068	30	4·7	3·8	285
0·9 „ .	30	13·9	8·9	107	29	7·0	4·8	105	28	10·4	9·5	065	29	8·3	7·3	047	29	9·7	8·7	068	30	5·1	2·8	278
1·5 „ .	30	14·1	8·1	114	27	7·2	4·2	109	27	8·8	6·6	070	28	8·4	6·3	044	29	9·7	6·2	069	30	6·6	0·1	119
2·1 „ .	30	14·0	6·1	104	20	7·4	4·0	088	27	10·3	4·6	073	27	8·9	5·4	033	27	9·0	4·2	053	30	7·1	1·7	241
3·0 „ .	30	15·0	6·6	098	13	8·0	5·8	052	23	10·6	3·4	066	23	8·4	3·5	357	23	9·0	2·1	101	30	12·2	11·1	286
3·6 „ .	29	16·0	7·1	085	9	7·9	6·0	038	18	9·8	2·3	358	17	8·6	3·6	011	20	7·7	1·7	098	26	15·2	14·4	287
4·5 „ .	29	16·6	6·3	087	7	7·1	6·1	043	1	13·0	13·0	080	9	11·0	1·8	359	3	7·7	5·4	068	21	15·4	14·5	281
5·4 „ .	29	14·0	8·1	100									5	12·8	6·4	352	1	10·0	10·0	350	16	21·1	19·3	268
6·0 „ .	29	12·6	7·7	105									4	13·2	9·7	350	1	10·0	10·0	340	15	25·3	24·3	263
7·2 „ .	28	12·3	7·7	110									2	9·5	8·9	160					4	21·2	20·6	300
9·0 „ .	21	12·5	9·9	105									1	7·0	7·0	175					3	33·3	32·9	270
Station	RAXAUL				SANTA CRUZ								TEZPUR											
Time in I. S. T.	1730				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	30	0·3	0·3	252	30	3·0	2·6	069	30	4·5	3·5	079	30	7·4	5·9	330	30	2·1	1·8	032	30	0·7	0·5	050
0·15 a. g. .	30	7·3	6·4	267	30	12·2	10·3	065	30	6·2	5·3	071	30	13·5	11·4	330	30	9·5	8·1	017	30	7·5	6·8	075
0·3 a. m. s. l. .	30	7·0	6·2	268	30	10·9	8·9	069	30	6·7	6·0	084	30	10·8	8·6	334	30	11·5	9·4	020	30	8·0	7·4	081
0·6 „ .	30	6·2	5·8	275	30	10·8	8·7	080	30	8·1	7·2	093	30	9·0	6·5	356	30	11·1	8·3	030	30	7·9	7·2	086
0·9 „ .	30	5·7	4·7	286	30	11·0	9·1	086	30	8·4	7·4	094	30	7·8	5·1	030	30	9·4	6·4	043	30	6·7	5·5	084
1·5 „ .	30	5·9	1·1	300	30	9·3	7·1	108	30	6·8	4·2	099	30	8·4	5·8	071	29	7·1	5·7	077	30	4·9	2·8	084
2·1 „ .	30	8·2	1·7	344	30	7·5	5·0	115	30	7·3	2·8	093	30	10·0	7·6	086	28	9·1	8·2	105	28	5·0	1·1	130
3·0 „ .	29	13·6	10·3	290	30	8·2	2·5	085	29	8·9	4·3	073	30	9·2	6·1	094	26	6·7	3·0	108	23	10·1	6·8	265
3·6 „ .	24	13·8	12·9	290	29	9·6	3·4	043	27	8·3	3·8	065	30	8·2	5·1	080	20	6·7	0·8	026	17	18·3	17·8	271
4·5 „ .	15	16·8	16·1	284	29	10·3	1·0	022	26	10·8	2·5	058	30	9·1	2·6	061	10	10·3	4·0	258	12	23·5	23·2	272
5·4 „ .	4	22·3	21·8	277	28	12·6	2·7	339	26	12·2	2·6	023	30	11·2	2·5	344	5	13·8	3·5	213	8	22·0	21·4	275
6·0 „ .	2	22·0	21·3	283	28	12·3	4·0	317	26	12·7	3·3	323	30	12·5	3·5	321	4	17·0	11·1	267	6	20·0	17·7	283
7·2 „ .	2	20·5	20·1	292	28	15·4	7·6	285	26	16·4	6·2	260	30	15·7	7·5	279					4	18·5	17·0	299
9·0 „ .	2	21·0	20·9	286	24	21·2	17·8	257	23	21·5	16·6	240	23	21·3	17·4	254					2	27·0	17·5	318

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

November 1958 (KARTIKA 10—AGRAHAYANA 9, 1880 SAKA)

Station	TEZPUR				TIRUCHIRAPALLI								TRIVANDRUM												
Time in I. S. T.	1730				2330				0530				1730				2330				0530*				
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Surface . .	30	0·4	0·4	030	30	1·3	1·2	029	30	4·2	2·3	008	30	5·7	2·9	077	30	6·0	1·2	067	30	2·8	2·3	319	
0·15 a. g. . .	30	7·7	7·4	065	30	7·8	7·5	079	28	11·6	6·7	012	28	9·5	6·1	081	28	12·5	7·3	079	30	4·7	4·0	317	
0·3 a. m. s. l. . .	30	7·8	7·5	066	30	7·7	7·3	085	28	12·0	6·5	015	28	10·1	6·6	079	28	14·0	7·9	079	30	5·3	4·6	343	
0·6 „ . .	30	6·0	5·8	076	29	6·0	5·4	093	28	13·1	7·1	029	28	11·0	7·1	064	28	14·9	9·7	063	30	6·7	5·3	334	
0·9 „ . .	30	4·3	3·2	098	29	4·8	3·7	094	28	12·9	7·4	030	28	11·5	6·9	056	28	14·2	9·9	054	30	8·2	4·8	329	
1·5 „ . .	30	4·4	2·0	187	29	4·2	1·1	229	27	10·9	6·9	028	28	11·6	7·1	021	28	10·7	6·6	031	30	10·1	4·2	354	
2·1 „ . .	29	5·6	2·9	223	29	4·9	0·8	232	25	10·3	5·4	025	28	11·8	6·3	354	25	10·3	7·9	021	30	9·8	4·0	359	
3·0 „ . .	25	12·0	9·6	222	25	9·5	6·8	260	23	10·6	2·8	048	26	11·1	3·3	001	23	8·9	3·9	049	30	10·6	2·9	318	
3·6 „ . .	11	16·4	11·9	265	9	14·0	13·8	258	22	9·6	3·1	100	22	11·3	3·3	058	20	9·1	4·3	075	30	10·9	1·8	291	
4·5 „ . .	6	18·3	16·0	280	7	20·3	19·0	270	19	9·7	3·3	100	21	11·1	2·2	090	14	11·3	5·3	087	30	11·5	1·0	197	
5·4 „ . .	1	21·0	21·0	355	4	16·9	14·3	283	16	9·9	5·3	090	18	11·4	5·9	086	5	10·2	4·5	090	30	12·1	1·3	093	
6·0 „ . .	1	18·0	18·0	330	2	25·0	20·4	286	14	9·9	6·9	090	16	12·8	7·6	086	4	10·0	5·0	101	30	12·1	2·7	101	
7·2 „ . .					1	13·0	13·0	320	3	8·3	7·0	104	6	10·5	5·2	100					30	11·0	5·6	106	
9·0 „ . .													3	6·0	5·5	142						28	12·8	11·4	096
Station	TRIVANDRUM								UDAIPUR																
Time in I. S. T.	1130				1730*				2330				0530				1730				2330				
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Surface . .	30	3·1	1·9	269	30	4·0	3·4	265	30	2·8	1·8	359	30	0·3	0·3	297	30	1·4	1·0	051	30	0·5	0·2	292	
0·15 a. g. . .	29	6·3	4·1	272	30	5·5	4·3	275	29	5·7	3·0	316	30	3·8	2·7	059	30	5·4	4·6	067	30	5·2	4·8	066	
0·3 a. m. s. l. . .	29	5·7	4·0	270	30	5·7	4·6	279	29	5·7	3·3	307													
0·6 „ . .	29	5·2	3·4	278	30	1·0	4·8	285	29	6·4	4·9	299													
0·9 „ . .	27	5·7	2·6	313	30	7·5	2·8	302	28	7·1	3·7	318	30	7·4	6·2	098	30	5·5	4·4	064	30	7·5	6·4	082	
1·5 „ . .	14	9·2	4·6	025	30	10·4	4·1	020	21	9·6	4·1	004	30	9·7	6·4	102	29	5·8	4·2	057	30	8·6	6·9	093	
2·1 „ . .	7	11·1	5·9	015	30	11·7	4·7	018	13	12·8	4·8	350	30	8·3	2·5	131	28	6·2	3·8	039	29	9·4	4·5	110	
3·0 „ . .	2	8·5	5·7	200	30	12·6	2·6	348	11	10·4	2·0	070	28	9·0	3·6	286	27	7·6	1·1	302	28	8·5	3·3	251	
3·6 „ . .	1	19·0	19·0	220	30	12·7	1·9	344	9	11·1	3·7	155	26	10·1	5·8	281	25	8·6	4·1	251	25	9·8	5·9	252	
4·5 „ . .					30	13·0	1·2	016	8	12·0	7·6	101	13	14·9	11·1	256	25	14·2	10·8	254	23	15·9	12·8	255	
5·4 „ . .					30	12·5	2·8	074	5	9·0	8·2	070	3	24·3	23·8	263	24	19·9	16·3	260	12	17·8	15·8	258	
6·0 „ . .					29	12·1	4·0	090	3	6·3	4·8	091					24	23·6	20·3	255	7	23·7	22·2	253	
7·2 „ . .					29	12·9	3·7	106								23	34·0	30·7	253	1	26·0	26·0	290		
9·0 „ . .					26	12·2	7·7	115								17	50·6	46·4	253						

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

November 1958 (KARTIKA 10—AGRAHAYANA 9, 1880 SAKA)

Station	VENGURLA								VERAVAL															
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1·0	1·0	360	30	4·2	2·9	257	30	2·1	1·5	019	30	7·5	6·2	042	30	9·0	4·9	100	30	9·0	3·5	230
0·15 a.g.	30	7·8	6·1	049	30	8·9	5·4	273	30	9·9	7·7	013	30	12·2	9·8	062	30	7·9	5·6	094	30	10·8	5·0	210
0·3 a.m.s.l.	30	9·0	6·4	055	30	8·9	5·1	275	29	11·1	7·9	006	30	11·6	8·5	072	30	8·6	6·3	089	30	10·2	4·2	210
0·6	30	10·1	7·1	071	30	8·1	2·8	296	29	10·9	6·9	006	30	11·3	7·8	088	30	9·2	6·8	094	30	9·0	1·8	160
0·9	30	12·0	9·1	085	30	8·1	3·2	038	30	10·7	5·7	022	30	10·7	6·9	101	30	9·7	6·9	099	30	7·8	3·1	100
1·5	30	11·5	9·0	098	28	11·1	8·8	061	28	11·5	8·3	066	30	10·2	6·0	127	30	9·5	5·8	117	30	9·5	5·1	100
2·1	30	10·0	7·1	102	27	14·2	13·0	066	27	14·1	12·4	083	30	11·3	6·7	143	30	10·2	5·9	140	30	10·4	5·5	060
3·0	28	10·1	3·1	075	25	11·2	8·8	056	23	10·4	7·8	086	30	9·0	2·7	175	29	10·8	4·7	151	30	9·4	3·0	250
3·6	16	8·5	3·8	056	23	8·5	5·0	040	11	6·9	1·3	002	30	9·7	3·1	218	28	11·1	2·8	162	30	10·0	2·3	230
4·5	9	13·0	11·0	063	22	8·4	3·2	034	3	10·0	3·7	068	30	12·2	5·0	270	27	11·9	4·0	235	30	12·0	4·7	250
5·4	"				22	9·5	5·6	075	1	8·0	8·0	120	30	14·5	9·6	269	27	14·2	8·6	256	30	14·6	9·2	250
6·0	"				22	11·5	6·1	072					30	16·9	13·1	266	27	17·6	12·1	252	30	16·6	11·7	250
7·2	"				9	11·2	1·4	108					29	23·8	21·0	263	27	20·6	16·3	253	30	22·7	19·5	260
9·0	"												28	34·5	32·8	254	20	32·3	29·3	248	26	34·0	30·8	260

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9.0 Km. above mean sea level

November 1958 (KARTIKA 10—AGRAHAYANA 9, 1880 SAKA)

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9·0 Km. above mean sea level

November 1958 (KARTIKA 10—AGRAHAYANA 9, 1880 SAKA)

Ht. in Km.	n	V	v	D	Ht. in Km.	n	V	v	D	Ht. in Km.	n	V	v	D	Ht. in Km.	n	V	v	D	
JODHPUR																				
1730 hrs.*																				
10·5	22	63·2	60·2	245	10·5	5	30·0	26·4	248											
12·0	15	72·4	69·3	247	12·0	3	41·7	40·0	221	10·5	16	20·0	15·8	110	10·5	26	16·7	13·8	110	
14·1	3	77·7	77·0	255	14·1	3	28·0	27·4	227	12·0	10	26·0	21·8	092	12·0	22	25·0	21·5	108	
16·2	1	31·0	31·0	240	16·2	2	13·5	11·7	175	14·1	3	30·0	32·1	091	14·1	10	31·3	23·9	113	
					18·0	1	15·0	15·0	050						16·2	2	23·5	22·7	110	
MADRAS																				
0530 hrs.*																				
10·5	24	16·3	12·9	120	10·5	29	28·9	27·0	243	12·0	2	13·5	13·5	094						
12·0	20	18·9	17·5	139	12·0	28	28·5	28·2	231	14·1	2	16·5	16·5	094						
14·1	14	21·4	9·7	144	14·1	27	31·1	27·2	224						10·5	24	17·9	15·2	109	
16·2	3	17·0	16·5	116	16·2	23	22·1	19·0	229						12·0	22	24·8	20·2	111	
					18·0	15	16·2	12·3	220	10·5	1	12·0	12·0	080	14·1	14	23·9	18·4	124	
					21·0	4	17·2	9·9	289	12·0	18	15·4	11·1	119	16·2	8	23·6	22·0	113	
1130 hrs.																				
NEW DELHI																				
0530 hrs.*																				
10·5	2	24·0	24·0	114																
12·0	2	30·5	30·5	195																
14·1	2	18·5	17·7	120	10·5	29	73·8	68·4	257						10·5	7	55·4	54·7	254	
16·2	2	31·5	30·7	127	12·0	26	83·5	76·3	255	10·5	18	29·6	28·1	238	12·0	5	61·6	61·0	251	
18·0	2	22·5	22·5	095	14·1	18	77·1	74·8	255	12·0	13	34·9	32·2	225	14·1	1	42·0	42·0	240	
1730 hrs.*																				
VERAVAL																				
0530 hrs.*																				
10·5	21	18·2	14·0	125	21·0	1	16·0	16·0	230	18·0	2	11·0	10·1	195	10·5	28	39·7	38·5	244	
12·0	14	23·0	20·6	128											12·0	24	39·1	37·4	233	
14·1	12	26·1	24·6	137											14·1	19	34·4	33·1	244	
16·2	6	22·5	22·0	124	10·5	9	60·2	53·0	269	10·5	15	24·6	22·1	228	16·2	11	27·4	22·1	241	
18·0	1	17·0	17·0	140	12·0	3	77·0	73·3	283	12·0	6	31·5	25·9	217	18·0	3	18·7	16·3	226	
1730 hrs.*																				
MANGALORE																				
1730 hrs.																				
10·5	3	16·0	12·2	141	10·5	26	75·0	71·4	256	18·0	2	14·0	12·5	145						
					12·0	21	82·9	76·0	260	21·0	1	20·0	20·0	095	10·5	13	38·0	35·1	240	
					14·1	12	74·2	72·6	262						12·0	7	39·1	36·0	236	
					16·2	4	39·5	31·3	262	10·5	16	26·0	23·1	231	14·1	2	17·1	17·0	232	
NAGPUR																				
0530 hrs.*																				
10·5	28	30·1	28·0	240																
12·0	27	34·1	30·4	235												10·5	25	41·6	39·6	240
14·1	23	30·4	27·3	235	10·5	9	29·8	26·2	224						12·0	22	39·0	36·0	234	
16·2	16	23·2	18·6	235	12·0	8	34·5	31·0	220						14·1	14	37·7	34·3	238	
18·0	11	17·5	6·1	190	14·1	7	38·7	37·3	230						16·2	8	26·0	20·3	248	
21·0	4	17·3	8·2	221	16·2	2	38·0	14·2	125	10·5	2	47·5	46·1	305	18·0	3	18·7	16·0	203	
24·0	1	7·9	7·0	209	18·0	1	55·0	55·0	225	12·0	1	61·0	6·10	290						

RADIOSONDE DATA**November 1958 (KARTIKA 10th AGRAHAYANA 9, 1880 SAKA)**

During the month, observations of upper air temperature, pressure and humidity were made at 13 stations in India as given in the list below. For a detailed description of the instruments used, a reference may be made to the I. M. D. Scientific Notes Nos. 112 and 113 (Volume IX).

LIST OF RADIOSONDE STATIONS IN INDIA

S. No.	Name of station	Type of instrument used	Date of starting	Hours of routine observations in GMT during the month	Remarks
1	Allahabad	Clock type	1st October 1944	00 and 12	
2	Amritsar	Clock type	21st June 1957	00 and 12	
3	Bombay	Clock type	7th September 1954	00 and 12	
4	Calcutta	Clock type	13th December 1946	00 and 12	Fan type used from 13th December, 1946 to 30th November, 1947.
5	Gauhati	Clock type	22nd July 1955	00 and 12	
6	Jodhpur	Clock type	17th April 1946	00 and 12	
7	Madras	Fan type	29th June 1946	00 and 12	
8	Nagpur	Fan type	1st October 1946	00 and 12	
9	New Delhi	Clock type	3rd December 1943	00 and 12	
10	Port Blair	Fan type	4th December 1949	00 and 12	
11	Trivandrum	Fan type	1st July 1947	00 and 12	
12	Veraval	Fan type	3rd October 1944	00 and 12	
13	Visakhapatnam	Fan type	8th December 1946	00 and 12	

RADIOSONDE DATA

TABLE VI.—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From ascents at 00 hrs. G. M. T.

November 1958 (KARTIKA 10—AGRAHAYANA 9, 1880 SAKA)

Standard pressure surface mbs.	ALLAHABAD Surf. Pr. (1003 mb.)							AMRITSAR (989 mb.)							BOMBAY (1009 mb.)							
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A							
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point				
Surface	29	098	289.0	297	284	285.9	30	230	285.2	289	279	282.2	30	013	295.5	300	292	291.2				
1000	28	127	...	...	...	...	30	134	...	...	...	...	30	095	...	...	...	...
900	28	1034	291.5	295	285	276.7	30	1028	288.8	294	283	272.8	30	1019	295.6	298	293	286.1				
850	28	1521	288.7	293	285	271.9	30	1511	286.2	292	281	268.9	30	1514	292.5	295	289	283.1				
800	28	2033	286.0	289	281	266.4	30	2018	283.4	288	278	265.7	30	2034	289.1	293	284	280.3				
700	28	3145	282.1	292	274	254.9	30	3116	276.7	281	271	259.5	30	3156	282.8	287	278	272.3				
600	27	4404	275.5	280	271	248.1	30	4348	268.6	275	264	246.5	30	4426	277.9	282	270	260.1				
500	27	5857	267.1	271	263	...	30	5759	259.2	265	255	...	30	5892	269.7	276	263	...				
400	26	7569	256.0	261	249	...	30	7431	247.5	253	240	...	29	7627	258.6	263	253	...				
300	24	9664	241.3	246	230	...	28	9434	232.6	241	222	...	26	9756	244.6	252	240	...				
250	20	10944	233.7	240	225	...	27	10654	224.9	238	216	...	23	11031	234.7	239	225	...				
200	19	12444	223.6	230	217	...	25	12105	217.5	229	210	...	21	12523	223.2	227	219	...				
175	17	13344	218.2	224	209	...	22	12941	213.6	226	205	...	20	13373	217.3	222	214	...				
150	16	14315	211.7	217	205	...	19	13919	211.4	222	207	...	16	14338	210.7	215	207	...				
125	11	15438	206.5	212	198	...	14	15029	208.9	218	205	...	14	15456	204.9	211	201	...				
100	9	16789	202.4	207	195	...	11	16388	205.5	209	201	...	7	16807	200.0	205	195	...				
80	8	18126	202.0	206	196	...	6	17729	207.5	211	203	...	5	18169	200.0	202	197	...				
	CALCUTTA (1013 mb.)							GAUHATI (1010 mb.)							JODHPUR (900 mb.)							
Surface	30	006	293.0	298	290	291.6	30	049	291.5	295	288	289.8	30	218	290.5	294	285	280.9
1000	30	117	30	133	30	127
900	30	1023	290.3	294	286	284.6	30	1037	289.6	293	285	284.9	30	1034	292.2	296	287	277.6
850	30	1509	287.7	290	281	281.3	30	1522	286.8	291	281	280.6	30	1523	289.3	293	284	275.3
800	30	2019	284.9	287	279	278.1	30	2031	284.4	287	279	276.6	30	2036	286.3	298	280	272.8
700	30	3128	280.5	285	276	269.0	30	3136	278.8	285	273	266.3	30	3146	280.5	292	273	264.8
600	30	4385	275.2	279	271	260.4	30	4386	274.3	281	270	255.8	30	4399	273.8	279	267	251.7
500	30	5838	267.6	272	264	254.3	30	5837	267.3	273	262	...	30	5841	265.4	271	259
400	30	7559	257.6	264	252	...	30	7559	258.3	265	251	...	30	7541	254.1	259	249
300	25	9683	243.6	251	234	...	17	9681	243.6	250	237	...	28	9638	240.9	247	235
250	22	10969	235.1	240	222	...	16	10971	235.4	240	229	...	28	10905	232.6	239	227
200	20	12484	224.9	228	217	...	15	12484	226.0	233	221	...	25	12393	223.0	230	217
175	18	13348	219.2	223	211	...	9	13358	220.1	228	216	...	22	13268	217.9	228	211
150	17	14312	212.5	216	203	...	7	14343	213.1	221	207	...	20	14246	213.9	220	205
125	12	15416	207.3	209	199	...	7	15461	207.7	216	202	...	17	15365	208.9	217	202
100	11	16754	202.1	207	191	...	6	16788	201.2	208	194	...	8	16756	205.7	212	200
80	6	18100	206.8	215	199

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES
(A) From ascents at 00 hrs. G. M. T.

November 1958 (KARTIKA 10—AGRAHAYANA 9, 1880 SAKA)

Standard pressure surface mbs.	MADRAS Surf. Pr. (1008 mb.)						NAGPUR (978 mb.)						NEW DELHI (991 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point
Surface	30	015	298.2	300	297	296.3	30	311	291.4	296	286	288.1	30	210	286.7	291	281	282.6
1000	30	086	...	...	...	...	30	117	...	...	...	...	30	134	...	...	...	...
900	30	1006	293.2	295	291	288.8	30	1029	292.6	296	289	284.2	30	1035	291.0	294	288	275.6
850	30	1498	290.5	292	288	285.8	30	1519	288.9	294	284	281.8	30	1522	288.2	292	286	271.9
800	30	2016	288.1	292	284	282.1	30	2032	285.9	291	280	277.6	30	2033	285.4	289	282	269.6
700	30	3136	282.3	286	279	275.6	30	3146	282.1	291	276	266.3	30	3142	280.4	284	276	258.7
600	30	4400	275.8	279	272	267.7	30	4407	275.5	280	271	256.1	30	4398	273.9	278	269	247.8
500	30	5853	267.3	271	263	...	30	5858	266.5	271	263	...	30	5839	265.0	270	261	...
400	30	7571	257.0	263	253	...	30	7566	255.4	261	252	...	29	7538	253.8	257	249	...
300	28	9680	241.7	241	236	...	29	9658	240.5	246	233	...	29	9622	240.4	244	235	...
250	26	10957	232.6	242	225	...	28	10914	230.3	236	222	...	29	10886	232.6	237	227	...
200	22	12430	219.5	229	214	...	26	12379	218.5	228	208	...	27	12372	222.9	227	218	...
175	15	13275	213.8	223	207	...	25	13206	211.8	218	201	...	27	13235	217.6	222	212	...
150	15	14230	206.5	211	200	...	24	14169	206.5	213	196	...	24	14201	212.2	218	207	...
125	8	15361	201.6	204	198	...	21	15269	202.2	209	193	...	21	15314	207.5	213	201	...
100	...	...	...	...	...	...	18	16598	198.2	205	188	...	15	16661	203.7	208	197	...
80	...	...	...	...	...	...	13	17926	199.3	205	193	...	10	18013	204.1	211	201	...
	PORT BLAIR (1002 mb.)						TRIVANDRUM (1002 mb.)						VERAVAL (1011 mb.)					
Surface	30	079	297.9	301	295	296.1	30	064	298.1	300	296	295.4	30	008	295.6	299	293	288.5
1000	30	097	...	...	...	...	30	083	...	...	...	...	30	103	...	...	...	...
900	30	1018	293.1	295	290	290.5	30	1003	293.1	297	289	288.9	30	1027	294.7	299	289	282.9
850	30	1510	290.4	293	287	286.7	30	1495	290.3	295	287	285.8	30	1520	291.1	296	286	279.9
800	29	2028	287.8	291	283	283.2	30	2015	287.6	293	284	282.3	30	2036	287.2	292	284	276.4
700	29	3149	282.7	286	279	276.3	30	3131	281.7	285	278	275.7	30	3154	282.6	288	279	261.9
600	29	4414	275.9	279	272	269.0	30	4390	274.7	279	270	267.3	30	4419	275.2	281	266	254.5
500	28	5871	268.1	272	265	...	30	5837	266.8	272	262	...	30	5869	266.8	272	260	...
400	27	7589	257.8	263	253	...	30	7547	256.2	263	250	...	29	7573	254.2	260	251	...
300	22	9691	241.8	249	237	...	29	9642	240.2	245	233	...	28	9656	238.7	245	236	...
250	15	10965	232.1	239	225	...	27	10897	229.7	236	222	...	27	10907	228.1	237	221	...
200	10	12441	220.1	227	214	...	27	12359	218.1	225	211	...	24	12374	218.1	226	212	...
175	6	13220	211.8	219	205	...	24	13205	211.9	219	202	...	24	13220	212.3	222	205	...
150	...	...	...	...	...	...	20	14134	205.7	213	195	...	23	14177	206.6	217	198	...
125	...	...	...	...	...	...	19	15212	200.3	207	188	...	20	15294	202.5	212	193	...
100	...	...	...	...	...	...	17	16508	196.1	205	187	...	12	16696	201.2	209	194	...
80	...	...	...	...	...	...	10	17840	195.4	203	187	...	6	18015	203.7	214	198	...

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From ascents at 00 hrs. G. M. T.

November 1958 (KARTIKA 10—ACRAHAYANA 9, 1880 SAKA)

Standard pressure surface mbs.	VISAKHAPATNAM Surf. Pr. (1006 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew Point
Surface	30	048	298.1	300	295	293.2
1000	27	104	...	...	...	...
900	27	1024	292.8	296	288	287.7
850	27	1515	289.8	293	286	284.8
800	27	2030	287.0	290	282	281.7
700	27	3146	281.8	285	278	274.4
600	27	4408	275.3	279	271	267.1
500	26	5861	267.5	271	264	...
400	24	7578	256.5	261	250	...
300	15	9683	241.5	249	233	...
250	9	10945	231.3	243	226	...
200	...	...	...	...	...	...
175	...	...	...	...	...	...
150	...	...	...	...	...	...
125	...	...	...	...	...	...
100	...	...	...	...	...	...
80	...	...	...	...	...	...

CLIMATE DIVISION BOMBAY
RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES
(B) From ascents at 12 hrs. G. M. T.

November 1958 (KARTIKA 10—AGRAHAYANA 9, 1880 SAKA)

Standard pressure surface mbs.	ALLAHABAD Surf. Pr. (1002 mb.)						AMRITSAR (988 mb.)						BOMBAY (1008 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	98	297.4	302	292	287.9	30	230	296.0	301	290	283.1	30	13	303.0	305	301	294.0
1000	26	117	...	...	...	...	30	128	...	...	...	...	30	86	...	...	...	...
900	26	1034	293.6	297	290	277.1	30	1040	292.1	300	287	273.0	30	1020	298.1	302	295	287.3
850	26	1525	290.5	295	287	272.5	30	1528	289.0	296	284	266.3	30	1519	294.7	299	292	284.2
800	26	2040	287.7	293	282	266.0	30	2039	286.3	292	281	260.8	30	2042	291.2	296	287	281.1
700	26	3157	282.9	288	277	253.7	30	3148	279.9	286	274	249.7	30	3172	284.9	291	280	271.2
600	26	4423	276.8	283	273	244.2	30	4397	271.7	276	267	234.6	30	4447	278.6	284	276	259.9
500	26	5882	268.3	273	264	...	30	5824	262.8	268	258	...	30	5917	270.4	274	266	254.3
400	26	7602	257.6	262	253	...	30	7509	251.7	257	248	...	30	7652	259.3	264	255	...
300	25	9709	243.0	248	239	...	28	9567	237.3	241	233	...	25	9773	245.2	250	238	...
250	22	10980	234.5	239	229	...	26	10812	229.4	237	224	...	21	11061	235.5	241	228	...
200	21	12478	223.8	229	218	...	24	12281	221.3	229	216	...	19	12569	224.7	231	216	...
175	16	13333	217.9	223	211	...	23	13139	218.0	224	211	...	16	13435	218.9	225	209	...
150	16	14303	211.8	219	203	...	20	14116	215.3	221	207	...	16	14413	212.3	219	203	...
125	15	15419	206.6	214	199	...	15	15253	212.8	218	205	...	13	15519	205.5	212	199	...
100	7	16754	204.1	211	199	...	14	16649	211.4	215	203	...	9	16892	205.4	212	195	...
80	...	...	...	...	...	...	11	18001	211.0	215	203	...	7	18233	206.0	219	199	...
Surface	CALCUTTA (1012 mb.)						GAUHATI (1007 mb.)						JODHPUR (988 mb.)					
	30	6	298.3	301	296	293.7	30	49	296.8	303	293	293.9	30	218	301.0	304	291	283.3
1000	30	106	...	...	...	...	29	109	...	...	...	...	30	115	...	...	...	...
900	30	1024	293.4	297	290	286.4	29	1024	292.4	299	288	286.9	30	1043	296.6	300	289	276.9
850	30	1514	290.3	294	287	282.0	29	1514	289.2	295	285	283.3	30	1539	293.0	297	288	274.0
800	30	2029	287.3	290	283	278.5	29	2027	286.3	291	282	279.2	30	2057	289.0	295	284	271.4
700	30	3146	282.3	285	279	270.7	29	3139	280.3	287	275	269.5	29	3177	282.1	287	277	262.0
600	30	4410	276.6	281	272	261.6	29	4394	274.9	281	270	257.9	29	4438	275.8	281	271	244.9
500	30	5872	269.4	274	265	253.0	29	5844	267.4	273	261	...	29	5891	267.4	274	262	...
400	30	7601	258.5	262	254	...	29	7561	256.8	261	247	...	29	7607	256.4	263	246	...
300	28	9729	243.7	250	237	...	17	9687	243.3	252	239	...	26	9704	241.8	249	235	...
250	24	11004	233.2	240	227	...	14	10965	235.1	238	231	...	25	10977	234.2	241	224	...
200	23	12495	221.4	229	211	...	12	12469	224.7	231	217	...	22	12480	220.6	232	216	...
175	20	13343	214.5	221	208	...							18	13343	219.0	225	210	...
150	17	14316	207.0	215	203	...							16	14361	215.7	221	209	...
125	10	15387	199.3	206	195	...							15	15500	210.2	213	201	...
100	...	...	...	...	...	...							9	16861	207.4	211	202	...
80	...	...	...	...	...	...							9	18208	207.0	213	202	...

RADIOSONDE DATA

TABLE VI--MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From ascents at 12 hrs. G. M. T.

November 1958 (KARTIKA 10—AGRAHAYANA 9, 1880 SAKA)

Standard pressure surface mbs.	MADRAS Surf. Pr. (1008 mb.)							NAGPUR (977 mb.)							NEW DELHI (990 mb.)						
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A						
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			
Surface	30	15	300.3	302	296	296.4	30	311	300.0	303	298	288.4	30	210	294.8	301	286	286.6			
1000	30	82	...	...	...	...	30	101	...	...	...	...	30	122	...	...	...	...
900	30	1006	293.7	296	290	289.4	30	1026	294.2	297	291	284.7	30	1036	293.3	297	288	277.6			
850	30	1499	290.9	294	286	286.5	30	1518	290.0	294	287	281.9	30	1526	290.2	293	287	273.2			
800	30	2017	288.1	293	283	283.4	30	2035	287.0	291	283	278.3	30	2041	287.0	290	285	269.3			
700	30	3139	282.6	288	278	276.5	30	3152	281.6	284	277	266.9	30	3156	281.7	286	277	260.1			
600	30	4402	275.9	280	271	267.2	30	4416	276.0	279	273	254.4	30	4415	274.7	279	271	250.0			
500	30	5857	267.6	273	261	...	30	5870	267.1	270	265	..	30	5860	265.9	269	261	...			
400	30	7575	257.8	264	247	...	29	7583	255.9	260	247	...	29	7564	254.6	258	250	...			
300	24	9691	242.9	250	235	...	29	9679	240.5	249	230	...	28	9651	240.1	245	235	...			
250	20	10959	232.7	241	224	...	29	10936	230.5	240	219	...	25	10914	232.2	238	228	...			
200	15	12416	221.0	227	213	...	28	12407	219.3	230	210	...	22	12414	223.5	229	216	...			
175	13	13286	215.8	223	207	...	28	13247	213.3	223	203	...	21	13282	218.9	224	211	...			
150	13	14230	209.3	216	200	...	28	14207	207.4	217	196	...	16	14296	216.0	223	210	...			
125	10	15385	202.5	208	192	...	25	15317	202.4	210	193	...	13	15428	210.2	216	205	...			
100	8	16684	196.6	201	193	...	22	16609	196.8	205	184	...	8	16807	207.0	215	200	...			
80							16	17892	197.7	204	185	...									
PORT BLAIR (1001 mb.)							TRIVANDRUM (1002 mb.)							VERAVAL (1010 mb.)							
Surface	30	79	299.1	301	296	296.5	30	64	301.1	303	299	296.4	30	8	302.2	305	300	294.8			
1000	30	88	...	...	...	...	30	80	...	...	...	...	30	96	...	...	...	...
900	30	1011	293.4	296	289	291.0	30	1007	294.4	296	292	290.0	30	1023	295.4	300	293	283.1			
850	30	1504	290.5	293	286	287.6	30	1500	291.0	294	288	286.8	30	1517	291.5	295	292	279.9			
800	30	2022	287.9	291	282	283.5	30	2022	288.6	293	287	283.2	30	2036	287.9	291	285	276.8			
700	30	3142	282.6	285	275	275.9	30	3143	282.5	286	279	275.0	30	3154	282.5	287	278	261.4			
600	30	4408	275.6	281	262	270.6	30	4407	275.6	280	271	267.4	30	4419	276.0	281	271	255.6			
500	29	5863	267.8	272	264	...	30	5858	267.5	273	263	...	30	5871	266.7	273	258	...			
400	28	7585	257.1	264	251	...	30	7573	257.1	262	250	...	30	7575	254.2	264	245	...			
300	20	9687	241.6	250	232	...	28	9685	242.3	248	237	...	24	9663	239.2	249	235	...			
250	19	10957	231.1	238	226	...	24	10960	232.5	240	227	...	26	10888	227.7	235	215	...			
200	12	12437	218.5	226	212	...	23	12447	220.5	227	211	...	23	12355	217.6	228	206	...			
175	8	13295	213.9	220	210	...	21	13280	213.1	223	203	...	22	13200	211.1	223	197	...			
150	6	14270	207.7	213	201	...	20	14233	206.5	213	195	...	17	14167	206.2	217	194	...			
125	5	15422	202.6	206	198	...	18	15327	200.6	210	191	...	10	15261	199.5	206	193	...			
100							12	16593	195.2	204	184	...	11	16580	198.9	207	193	...			
80							9	17960	197.7	209	191	...	5	18067	197.6	200	195	...			

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From ascents at 12 hrs. G. M. T.

November 1958 (KARTIKA 10—AGRAHAYANA 9, 1880 SAKA)

Standard Pressure Surface mbs.	VISAKHAPATNAM Surf. Pr. (1006 mb)					
	No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	30	48	300.6	303	297	294.6
1000	28	97	...	...	...	...
900	28	1021	293.6	298	289	287.2
850	28	1513	290.5	295	287	285.5
800	28	2029	287.4	293	282	281.6
700	28	3147	282.0	288	275	271.5
600	27	4409	275.8	281	271	262.3
500	27	5863	267.4	273	261	...
400	25	7580	256.5	265	251	...
300	16	9702	241.6	250	231	...
250	12	10965	232.4	240	229	...
200	10	12488	223.1	230	218	...
175						
150						
125						
100						
80						

Note.— Number of observations refer to those of dynamic height.

Means are not worked out for temperature and dew point for the 1000 mb. surface and for dew point for standard pressure surfaces with temperature less than 273° A.

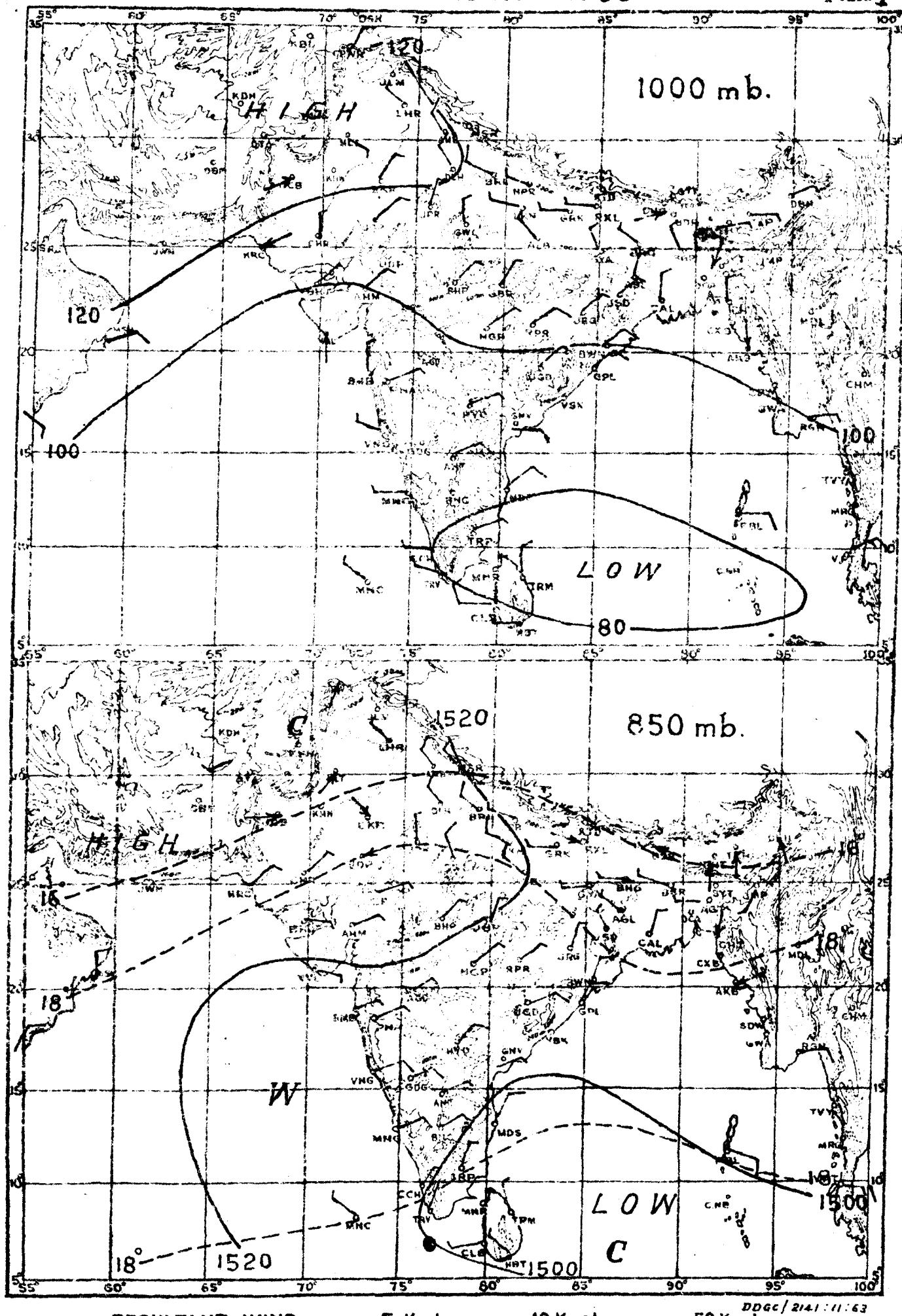
Means are not worked out for less than five observations at standard pressure surfaces.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D.

NOVEMBER 1958

Plate I



RESULTANT WIND — 5 Knots, — 10 Knots, — 50 Knots.

DDGC/2141:11:63

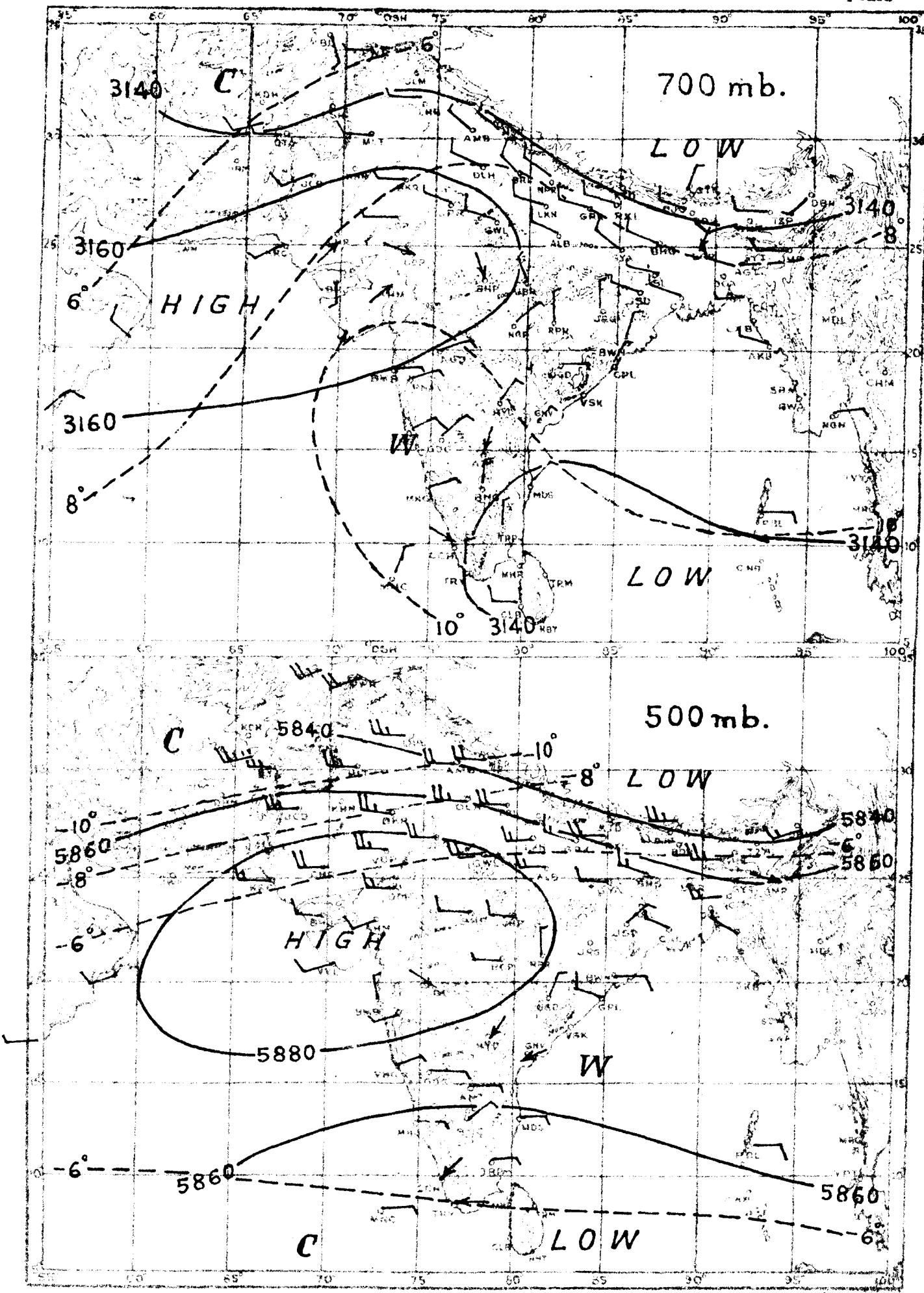
— Isotherms in degrees centigrade — Contours in geopotential metres.

G.P.E.P. DOONA, 1963

MONTHLY MEAN CONSTANT PRESSURE CHARTS
NOVEMBER 1958

Int. J.

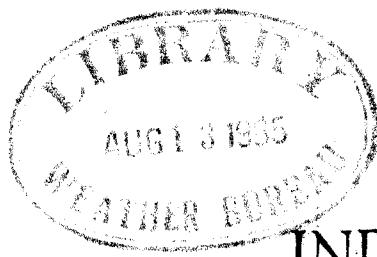
Plate II



RESULTANT WIND — 5 Knots, — 10 Knots, — 50 Knots.

Isotherms in degrees centigrade

Contours in geopotential metres.



*Weather
Bureau*

Registered No.B-2997

22 JUN 14

Copy

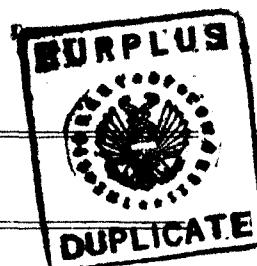
1965

INDIA WEATHER REVIEW, 1958

Monthly Weather Report

DECEMBER

Published by authority of the Government of India



Chief features :—

Fairly good activity of the western disturbances.

Four western disturbances moved across the country during the month. The first caused only cloudiness in the extreme north of the country but the subsequent three were quite active. Also, as the month progressed, each succeeding western disturbance took a more southerly course than its predecessor, the last one moving through Saurashtra and Kutch. The third western disturbance which moved from Baluchistan to Himachal Pradesh between 19th and 23rd was responsible for fairly widespread rain or snow in Kashmir. According to press reports, the heavy snowfall in Kashmir caused dislocation of communications there.

A Tabular statement showing the movement and activity of each western disturbance during the month of December 1958 is given below:

Statement showing the movement and activity of western disturbances during the month of December, 1958.

S. No.	Period	Course	Region affected	Nature of precipitation	Period	Remarks
1	1st-3rd	North Baluchistan—East Afghanistan—N.W.F.P.—North Punjab(P)—Jammu and Kashmir.	..	..	..	Caused heavy cloudiness over Jammu and Kashmir, Himachal Pradesh and Punjab-Kumaon hills on 3rd.
2	11th-15th	Baluchi tan—upper Sind—Punjab (P)—Jammu and Kashmir.	Punjab (I) Himachal Pradesh	Local or scattered showers Fairly widespread or local rain/snow.	13th-15th 14th-15th	
			West Rajasthan	Scattered showers.	14th-15th	
			Jammu and Kashmir	Local or scattered rain/snow. Fairly widespread rain/snow.	12th - 13th 14th - 15th	
3	19th-23rd	Baluchi tan—Sind—West Raja than — Punjab (P)—Punjab (I)—Himachal Pradesh.	Saurashtra and Kutch Rajasthan Punjab (I), West Uttar Pradesh and Himachal Pradesh.	Local or scattered showers Fairly widespread showers Local or Scattered showers	21st - 22nd 22nd 23rd	
			Jammu and Kashmir	Fairly widespread rain/snow.	22nd	
4	25th-28th	N.E. Arabian Sea—Saurashtra & Kutch—South Rajasthan—West Uttar Pradesh.	Rajasthan Punjab (I) and Himachal Pradesh. West Uttar Pradesh.	Scattered showers Fairly widespread showers Local or scattered showers	27th - 28th 27th - 28th 27th - 28th	

The northeast monsoon was fairly active along the east coast during the first week of the month. Thundershowers were fairly widespread in the Madras State and in Rayalaseema on 6th. Later in association with the passage of three easterly waves across the south Peninsula during the second and third weeks of December, scattered showers occurred in the Madras State practically on all days and in coastal Andhra Pradesh on four days. During the last week of the month, one easterly wave moved across the Ceylon-Comorin areas and was responsible for a good amount of rainfall in Ceylon and in the Arabian Sea Islands, Minicoy reporting 7 cms. of rain on 29th.

"Copyright © 1959 by Manager of Publications, Government of India, Delhi-8"

Night temperatures were either above normal or nearly normal over most of the country during the month. They were appreciably above normal in Gangetic West Bengal, Uttar Pradesh and the Punjab (I) on many days during the first three weeks of the month.

Total rainfall during the month was in large excess in Sub-Himalayan West Bengal, west Uttar Pradesh, the Punjab (I), Jammu and Kashmir, west Rajasthan and Saurashtra and Kutch, in moderate excess in Assam and in slight excess in Rayalseema. It was in slight defect in the Arabian Sea Islands, in moderate defect in east Uttar Pradesh and coastal Andhra Pradesh and in large defect in the Bay Islands, east Rajasthan, Madhya Pradesh, Maharashtra and the States of Madras, Mysore and Kerala. There was no rain in Gangetic West Bengal, Orissa, Chota Nagpur, Bihar, Gujarat, the Konkan, Vidarbha and Telangana.

The mean maximum temperature was above normal in Chota Nagpur, Bihar, east Madhya Pradesh, and the Arabian Sea Islands and normal over the rest of the country. The mean minimum temperature was normal in the Bay Islands, Vidarbha, coastal Andhra Pradesh, coastal Mysore, Kerala and the Arabian Sea Islands and above normal over the rest of the country.

Mean relative humidity was above normal in Uttar Pradesh, the Punjab(I), Rajasthan, west Madhya Pradesh, Gujarat, Saurashtra and Kutch, Vidarbha, south Mysore and the Arabian Sea Islands and normal over the rest of the country.

The cloud amount was above normal in Assam, Sub-Himalayan West Bengal, Bihar, east Uttar Pradesh, the Punjab (I), Jammu and Kashmir, Rajasthan, west Madhya Pradesh, Gujarat, Saurashtra and Kutch, Vidarbha, the Madras State, coastal and north Mysore, Kerala and the Arabian Sea Islands below normal in Gangetic West Bengal, Orissa and Telangana and normal over the rest of the country.

Normal data for Himachal Pradesh are absent.

Table I contains the divisional and sub-divisional means of rainfall, temperatures, humidity and cloud amount for the 14 chief political divisions and the 30 sub-divisions. The stations whose observations are used for preparing these means are given in the subsequent tables.

The highest maximum temperature given for any station in the accompanying tables is that recorded within the 24 hours ending at 0830 hrs. IST of the date noted in the succeeding column; similarly the heaviest fall in 24 hours for any station denotes the amount recorded during the 24 hours ending at 0830 hrs. IST of the date given in the succeeding column.

POONA 5,

Dated the 18th August, 1960.

C. RAMASWAMY,

for Director General of Observatories.

Errata to M.W.R. for December 1956 (Amavasya 10 - Pausch 10, 1886 Saka)

Page No.	Station	Hour	Column	For	Read
617	(Sale price)			(Not given)	Rs.12.10 nPa.
<u>Table I - Sub-division</u>					
619	13. Rajasthan (West)	4		+0.2	-0.2
619	30. Arabian Sea Islands	4		+0.5	+1.5
<u>Table II</u>					
620	Digboi	14		14	24
620	Jalpaiguri	3		+2.0	-2.0
621	Gopalpur	12		+13.5	-13.5
621	Dehri	9		5,27	25,27
622	Roorkee	3		+0.6	-0.6
622	Dehra Dun	18		4.1	3.1
622	Srinagar	16		+0.8	+0.6
622	Kargil	1		Kargil	Kargil (R)
623	Dohad	19		+2.4	..
623	Porbander (Aerodrome)	10		0	..
623	Rajkot (Aerodrome)	19		+5.7	..
623	Mahuva	15		(Blank)	0
624	Akola	13		(Blank)	0
625	Paleyscottai	26		(Blank)	0
625	Funalur	9		5	6
625	(Foot note)	-		(m) Mean of 19	(m) Mean of 18 days
626	Lokpal	6		-1.5 days	-10.5
626	Dharamshala	23		(Blank)	0
626	Hambantota	10		15.6	15.7
627	(Foot note)	-		(e) Mean of 28	(c) Mean of 28 days.
<u>March</u>					
628	Amini Divi	2		34.9	34.3
<u>July</u>					
628	Minicoy	12		177.4	-177.4
628	Amini Divi	9		2	29
628	Amini Divi	12		142.0	-142.0
<u>August</u>					
628	Minicoy	12		100.9	+100.9
628	Amini Divi	12		100.7	+100.7
<u>September</u>					
628	Minicoy	5		4	4 days
628	Amini Divi	12		124.4	-124.4
<u>Table III</u>					
629	Port Blair	1730	23	1	0
629	Dibrugarh (Mohanbari Aerodrome)	0830	18	13	18
629	Gauhati	1730	5	1008.8	1008.6
630	Goalpara	1730	8	19.8	19.1
630	Jalpaiguri	1730	3	(Blank)	,,
630	Malda	0830	3	,,	31
631	Midnapore	1730	18	(Blank)	0
631	Chandbali	0830	6	+0.9	+1.1
632	Keonjhar	0830	4	1015.8	1018.8
632	Keonjhar	1730	4	1011.7	1014.7
632	Jamshedpur (P.B.O.)	2330	13	2.1	1.1
633	Bhagalpur	*2330	18	20	17
640	Parbhani	0830	4	1018.3	1018.5

contd.2

Page No.	Station	Hour	Column	For	Read.
640	Parbhani	0830	5	969.7	969.9
640	Parbhani	1730	4	1013.4	1013.6
640	Parbhani	1730	5	966.1	966.3
645	Lhasaa	0830	17	3	0
646	Tumure	0830	1	Tumure	Tumure
646	Okhaldunga	0830	1	Okhaldunga	Okhaldunga +
647	Barahkhetra	1130	5	1000.2	1000.5
647	Taplejung	0830	7	9.2	9.4
<u>April</u>					
648	Minicoy	2330	3	7	,,
<u>June</u>					
648	Minicoy	0830	8	24.6	25.6
<u>July</u>					
648	Minicoy	0830	13	6.5	6.4
<u>August</u>					
648	Minicoy	2330	9	23.1	23.6
<u>September</u>					
649	Minicoy	1130	17	6	0
<u>October</u>					
649	Amini Divi	0830	13	5.4 (e)	5.4 (e)
<u>November</u>					
649	Minicoy	1130	15	0.9	6.9
649	Minicoy	2330	4	1011.2	1011.7
<u>December</u>					
649	Minicoy	0830	5	1013.2	1013.2
649	(Foot note)	-	-	(e) Mean of 26 days	(e) Mean of 26 days.
<u>Table III (A)</u>					
652-	(Heading line)	-	-	(1878-1879 Saka)	(1879-1880 Saka)
693					
653	Port Blair	Dec.	N	18.9	18.8
653	Dibrugarh	Sep.	X	36.1	36.6

Page No.	Station	Time in I.S.T	Ht. in Km.	Entry under column	Existing entry	Correct entry
695	Santa Cruz	-	-	Height of Anemometer head a.m.s.l. in metres.	14	27
696	Amausi	2330	1.5	D	224	294
697	Amritsar	0530	6.0	v	31.1	27.8
702	Gwalior	0530	3.0	D	30	300
704	Jodhpur	0530	0.9	n	3	31
710	Gauhati	0530	14.1	V	69.1	69.0
710	Port Blair	0530	16.0	V	14.0	10.0
<u>RADIOSONDE DATA</u>						
716	Bombay	1200	800 mb. GMT	Mjn.	-	283

TABLE I—DIVISIONAL AND SUB-DIVISIONAL MEANS—DECEMBER, 1958 (AGRAHAYANA 10—PAUSA 10, 1880 SAKA)

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C.		Mean minimum temperature °C	Relative humidity %.	Cloud			Rainfa millimetres)	Percentage of normal	Mean maximum temperature °C		Mean minimum temperature °C	Relative humidity %.	Cloud		
			0830 hrs. IST.	1730 hrs. IST.			0830 hrs. IST.	1730 hrs. IST.	0830 hrs. IST.			3	4	5	6	7	8	9
1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9	
Division																		
1. Assam (Including Manipur, Tripura).	12.1	132	24.4	13.5	87	77	3.6	2.5	10.9	9.9	11	26.2	10.8	67	43	1.9	2.3	
	+2.9		+0.4	+2.2	-2		+0.7		-7.6	+0.8		+0.8	+1.4	+5		+0.5		
2. West Bengal	2.6	67	26.1	15.2	76	62	1.0	1.3	10.9	10.8	18	29.8	16.2	66	46	1.9	2.2	
	-1.3		+0.5	+2.5	+3		-0.3		-3.7	+0.5		+2.0	+2.0	+6		+0.5		
3. Orissa	0	0	27.8	16.3	75	59	1.0	2.4	11.9	11.8	61	28.9	18.1	75	57	2.2	2.9	
	-5.5		+0.9	+2.0	+2		-0.5		-6.1	+0.1		+1.1	+3		-0.2			
4. Bihar	0	0	25.8	12.0	75	62	1.3	1.6	12.9	12.8	34	29.1	21.9	80	66	4.8	5.0	
	-4.6		+1.5	+2.0	+2		+0.2		-75.9	+0.4		+1.2	-1		+0.9			
5. Uttar Pradesh	11.9	117	23.8	10.2	82	64	1.9	2.0	13.9	13.8	19	28.6	17.7	72	46	3.1	3.7	
	+1.7		+0.2	+2.1	+9		+0.6		-7.0	-0.1		+1.3	+5		+0.7			
6. Punjab (India) (Including Himachal Pradesh and Delhi)*	23.0	162	22.9	8.9	85	64	2.4	2.5	14.9	14.8	32	31.5	23.3	74	65	3.6	3.8	
	+8.8		+0.3	+2.4	+15		+0.4		-29.2	+0.8		+0.8	-3		+0.7			
7. Jammu and Kashmir.	85.2	160	11.3	0.8	73	56	5.4	5.3	15.9	15.8	6.9	27.0	14.0	74	54	2.2	2.5	
	+32.1		+1.0	+2.0	+3		+1.4		-6.3	+0.5		+1.8	+6		+0.5			
8. Rajasthan	7.9	184	25.6	10.8	76	46	2.7	2.4	16.9	16.8								
	+3.6		+0.4	+2.0	+19		+1.2											
Sub-Division																		
1. Bay Islands	77.5	39	29.4	22.6	69	77	4.7	4.9	17.9	17.8	0.1	26.1	10.7	69	49	1.5	2.0	
	-123.7		+0.7	-0.1	-2		+0.5		-8.3	+1.2		+1.4	+2		0			
2. Assam (Including Manipur, Tripura).	12.1	132	24.4	13.5	87	77	3.6	2.5	18.9	18.8	0	30.7	14.9	69	39	1.7	1.8	
	+2.9		+0.4	+2.2	-2		+0.7		-1.4	+0.7		+2.5	+7		+0.5			
3. Sub-Himalayan West Bengal.	9.7	285	24.1	13.5	84	63	1.7	1.7	19.9	19.8	3.8	29.0	15.4	65	43	2.0	1.8	
	+6.3		-0.5	+1.9	+5		+0.9		+2.0	+0.6		+2.4	+12		+0.7			
4. Gangetic West Bengal.	0	0	26.6	15.7	74	62	0.8	1.2	20.9	20.8	0	31.0	21.0	67	65	2.0	2.4	
	-4.1		+0.8	+2.7	+2		-0.6		-3.1	+1.0		+1.8	0		+0.3			
5. Orissa	0	0	27.8	16.3	75	59	1.0	2.4	21.9	21.8	0.2	29.5	14.9	63	39	1.9	2.8	
	-5.5		+0.9	+2.0	+2		-0.5		-5.9	+0.4		+2.2	+5		+0.3			
6. Chota Nagpur	0	0	26.4	11.9	69	58	1.2	1.7	22.9	22.8	0	28.3	13.5	67	43	2.0	2.5	
	-6.1		+2.0	+1.9	-1		-0.2		-10.9	-0.3		+1.0	+7		+0.4			
7. Bihar	0	0	25.4	12.1	79	66	1.5	1.6	23.9	23.8	13.2	28.9	19.7	76	65	2.5	3.3	
	-3.8		+1.1	+2.1	+4		+0.5		-9.8	+0.3		+1.0	+2		-0.3			
8. Uttar Pradesh (East).	4.2	54	24.4	10.6	83	66	1.9	1.7	24.9	24.8	0	28.2	15.0	72	43	1.4	2.2	
	-3.6		+0.3	+2.1	+7		+0.8		-6.0	0		+1.1	+4		-0.5			
9. Uttar Pradesh (West).	19.5	155	23.1	9.7	81	62	1.9	2.4	25.9	25.8	11.8	29.9	19.0	78	57	2.7	3.1	
	+6.9		0	+2.2	+10		+0.3		+1.2	-0.3		+1.7	+5		+0.3			
10. Punjab (India) (Including Delhi).	23.0	162	22.9	8.9	85	64	2.4	2.5	26.9	26.8	39.8	29.1	21.9	80	66	4.8	5.0	
	+8.8		+0.3	+2.4	+15		+0.4		-75.9	+0.4		+1.2	-1		+0.9			
11. Himachal Pradesh.	63.3	..	21.1	5.3	97	64	6.1	4.4	27.9	27.8	1.7	32.5	22.3	67	59	3.3	3.9	
	..	..	..	..	..	..	..		-6.2	+0.3		+1.0	+3		+0.7			
12. Jammu and Kashmir.	85.2	160	11.3	0.8	73	56	5.4	5.3	28.9	28.8	0.3	29.0	16.9	67	40	2.6	3.7	
	+32.1		+1.0	+2.0	+3		+1.4		-6.1	+0.2		+1.3	+4		+0.9			
13. Rajasthan (West)	14.8	463	24.9	10.8	78	48	2.8	2.1	29.9	29.8	2.8	27.0	16.9	79	48	3.7	3.5	
	+11.6		+0.2	+2.7	+22		+1.1		-8.3	-0.4		+1.3	+6		+0.6			
14. Rajasthan (East)	1.1	20	26.1	10.8	74	44	2.6	2.6	30.9	30.8	13.8	31.5	23.3	74	65	3.6	3.8	
	-4.3		+0.8	+1.5	+16		+1.3		-29.2	+0.8		+0.8	-3		+0.7			
15. Madhya Pradesh (West).	1.4	16	26.2	10.8	66	40	2.2	2.4	31.9	31.8	51.9	31.6	23.4	79	73	3.9	5.0	
	-7.2		+0.5	+1.3	+6		+0.8		-9.9	+0.5		+0.1	+8		+0.7			

Note.—The entries in the second line for each division and sub-division indicate departures from normal.

*Data of Himachal Pradesh not included.

TABLE II.—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—DECEMBER, 1958
(AGRAHAYANA 10—PAUSA 10, 1880 SAKA)

Division and station	Air temperature in °C									Rainfall in millimetres				No. of rainy days (2.5 mm. or more)	Wind speed, kms. per hour			Weather phenomena—No. of days with												
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
Bay Islands																														
Maya Bandar	26.6	..	28.3	2,8,21	22.4	..	19.3	30	4.9	30.8	..	9.8	9	4	..	13.4	10.6	..	6	0	0	0	0	0	0	0	0	0	0	
Long Island	29.4	..	30.1	4 days	22.8	..	18.9	29	0	7.2	..	5.2	1	1	..	2.9	1.7	..	2	0	0	0	0	0	0	0	0	0	0	
Port Blair	29.4	+0.7	30.7	22	22.6	-0.1	18.8	27,30	32.5	77.5	-123.7	42.4	2	6	-1.2	..	..	..	7	0	0	0	1	0	0	0	0	0	0
Car Nicobar	29.6	..	35.5	23	24.6	..	18.2	28	4.4	18.0	..	8.2	11	2	..	10.0	8.3	..	3	0	0	0	0	0	0	0	0	0	0	
Nancowry	31.1	..	32.9	25	23.9	..	21.8	7	35.0	113.5	..	46.3	14	7	..	0.3	0.2	..	9	0	0	0	0	0	0	0	0	0	0	
Kondul	28.2	..	28.9	22	25.5	..	22.5	26	124.2	258.6	..	62.0	14	12	..	12.9	12.6	..	15	0	0	0	3	0	0	0	0	0	0	
Assam (Including Manipur, Tripura)																														
Pasighat	23.6	..	27.4	5	12.9	..	8.4	19	2.5	17.0	..	13.8	11	1	..	7.0	10.0	..	3	0	0	0	1	0	0	0	0	0	0	
Digboi	23.5	..	27.7	6	11.9	..	8.4	26	9.2	17.0	..	6.4	14	3	..	..	..	..	5	0	0	0	0	0	0	0	0	0	0
Dibrugarh	23.9	+0.6	28.3	6	12.9	+2.3	9.5	22	11.4	19.6	+3.6	11.6	24	2	+0.6	2.0	1.1	+0.3	6	0	0	0	2	0	0	0	0	0	0	
Dibrugarh (Mohanbari Aerodrome)	23.4	..	27.5	6	11.4	..	7.8	22	13.0	25.2	..	10.0	24	3	..	2.3	1.2	..	5	0	0	2	6	0	0	0	0	0	0	
North Lakhimpur	23.8	..	27.8	6	11.4	..	6.6	20	23.1	34.7	..	21.3	24	3	..	6.3	4.3	..	4	0	0	1	11	0	0	0	0	0	0	
Sibsagar	23.1	+0.8	26.9	6	13.0	+2.5	9.5	22	23.4	34.1	+19.4	17.8	17	5	+3.5	2.5	1.6	0	7	0	0	3	0	0	0	0	0	0	0	
Jorhat	23.9	..	27.9	6	12.7	..	9.2	27	18.5	26.0	..	14.7	17	4	4	0	0	0	1	10	0	0	0	0	0	0
Golaghat	24.4	..	28.9	4	13.2	..	9.4	20,21, 22	17.0	41.0	..	18.0	11	4	..	..	..	..	3	0	0	0	0	0	0	0	0	0	0
Gohpur	23.8	..	26.0	14	12.0	..	7.7	22	..	45.5	..	40.4	17	2	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Tezpur	25.2	+1.2	28.9	5,6,7	14.6	+2.3	10.6	20	1.9	8.1	+1.8	4.3	17	1	+0.3	4.5	3.2	+0.9	5	0	0	1	0	0	0	0	0	0	0	
Tezpur (P.B.O.)	23.8	..	27.2	3,4	13.5	..	10.1	21	1.7	4.8	..	1.9	17	0	..	3.6	2.3	..	5	0	0	1	6	0	0	0	0	0	0	
Mazbat	..	..	..	..	..	..	..	..	6.4	35.4	..	23.6	17	3	..	3.8	2.5	..	6	0	0	1	0	0	0	0	0	0	0
Chaparmukh	26.0	..	30.0	3	12.5	..	10.5	27	0	8.1	..	8.1	8	1	..	..	..	..	1	0	0	0	0	0	0	0	0	0	0
Tangla	25.5	..	28.9	3,4	12.4	..	8.0	20	0	3.4	..	3.4	17	1	..	0.9	0.3	..	1	0	0	0	0	0	0	0	0	0	0	
Gauhati	24.7	+0.5	28.1	3	14.6	+3.1	10.4	22	0	0	-4.1	0	..	0	-0.5	0	0.3	-1.5	0	0	0	0	0	0	0	0	0	0	0	0
Gauhati (Lhorjor Aerodrome)	23.7	..	27.2	6	12.7	..	8.4	21	0	0	..	0	..	0	..	4.8	2.8	..	0	0	0	0	7	0	0	0	0	0	0	
Rangiya	25.8	..	28.6	3	14.8	..	10.5	21,26	0	2.0	..	2.0	12	0	..	5.1	3.7	..	1	0	0	0	0	0	0	0	0	0	0	
Goalpara	26.3	..	29.1	3,4	13.7	..	10.1	22	2.0	2.0	..	2.0	12	0	..	2.5	1.9	..	1	0	0	0	5	0	0	0	0	0	0	
Dhubri	23.9	+0.5	27.7	3	15.8	+2.6	12.8	25,26	0	0	-11.8	0	..	0	-0.1	4.1	4.1	-1.5	0	0	0	0	4	0	0	0	0	0	0	
Dhubri (Rupsi Aerodrome)	25.2	..	28.2	4	12.6	..	8.6	31	0.4	0.4	..	0.4	8	0	..	4.4	2.5	..	1	0	0	0	6	0	0	0	0	0	0	
Tura	24.2	..	26.9	3	14.0	..	10.1	10	0	4.8	..	4.4	1	1	..	4.0	5.0	..	2	0	0	0	0	0	0	0	0	0	0	
Agartala	26.6	..	29.6	6	12.5	..	8.1	25,31	0	0	..	0	..	0	..	5.4	2.4	..	0	0	0	0	14	0	0	0	0	0	0	
Kailashar (C.W.O.)	26.8	..	29.6	5	11.8	..	8.1	20	0	0	..	0	..	0	..	2.2	1.5	..	0	0	0	0	0	0	0	0	0	0	0	
Silchar	24.0	-2.6	29.9	5	14.3	+1.7	10.9	31	3.4	10.0	-0.7	5.0	8	2	+1.3	1.7	0.9	-0.5	4	0	0	0	0	0	0	0	0	0	0	
Silchar (Kumbhigram Aerodrome)	26.5	..	30.2	6	13.4	..	10.0	27	4.8	10.6	..	4.3	8	3	..	5.3	7.4	..	3	0	0	0	0	0	0	0	0	0	0	
Imphal	21.1	..	24.2	4	5.9	..	1.1	31	0	6.4	..	5.0	10	1	..	5.8	3.7	..	3	0	0	0	4	0	0	0	0	0	0	
Haflong	22.0	..	25.6	6	11.4	..	8.0	31	5.0	7.9	..	2.9	8	1	..	5.5	4.1	..	4	0	0	0	0	0	0	0	0	0	0	
Lumding	25.3	+2.0	28.8	4	11.8	+1.4	6.7	26,27	0.9	0.9	-2.7	0	..	0	-0.4	0.7	0.2	..	1	0	0	0	0	0	0	0	0	0	0	
Sub-Himalayan West Bengal																														
Bengal																														
Cooch Behar (C.W.O.)	25.2	..	28.1	3,4	12.3	..	8.7	25	24.8	24.8	+20.7	23.8	9	1	+0.7	4.5	2.1	..	2	0	0	0	16	0	0	0	0	0	0	
Jalpaiguri	22.8	+2.0	25.6	4,5,6	13.3	+1.5	10.2	24,25, 26	0.8	4.2	-0.1	3.4	8	1	+0.6	5.0	3.7	+2.4	2	0	0	0	5	0	0	0	0	0	0	
Bagdogra	25.3	..	28.2	2	11.3	..	7.8	25	2.2	2.2	..	2.2	11	0	..	7.4	5.7	..	1	0	0	0	8	0	0	0	0	0	0	
Malda	25.4	+1.1	27.8	3,5	13.8	+2.4	10.0	31	0	0	-1.8	0	..	0	0	-0.2	6.6	4.2	-0.3	0	0	0	0	6	0	0	0	0	0	

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—DECEMBER, 1958
AGRAHAYANA 10—PAUSA 10, 1880 SAKA)

Division and station	Air temperature in °C								Rainfall in millimetres				No. of rainy days (2·5 mm. or more)	Wind speed, kms. per hour			Weather phenomena—No. of days with													
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·3mm. or more)	Snow or sleet	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Light squall			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
Orissa—Contd.																														
Balasore . .	27·8	+1·1	29·3	15	16·0	+2·8	11·9	25	0	0	-4·1	0	..	0	-0·3	6·9	3·2	+0·6	0	0	0	0	0	0	0	0	0	0	0	
Chandbali . .	26·1	-0·7	31·1	9	16·3	+2·0	12·2	25	0	0	-0·8	0	..	0	-0·1	5·5	3·7	-1·6	0	0	0	0	1	0	0	0	0	0	0	
Cuttack . .	28·6	+1·3	30·2	16	17·0	+2·2	13·0	27	0	0	-5·8	0	..	0	-0·4	3·6	2·8	+1·4	~	0	0	0	0	0	0	0	0	0	0	
Bhubaneswar . .	28·2	..	29·4	16	17·0	..	13·0	26	0	0	..	0	..	0	..	6·0	5·5	..	0	0	0	0	0	0	0	0	0	0	0	
Puri . .	28·1	+1·2	29·5	4	18·9	+2·0	15·6	27	0	0	-6·1	0	..	0	-0·4	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Gopalpur . .	28·7	+1·8	29·8	4	17·7	+1·6	14·7	27	0	0	+13·5	0	..	0	-0·7	12·3	11·3	+1·5	0	0	0	0	0	0	0	0	0	0	0	
Koraput . .	24·5	..	26·7	15	11·6	..	6·1	26	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Titilagarh . .	26·1	..	28·9	6	14·2	..	10·1	26	0	0	..	0	..	0	..	3·0	1·7	..	0	0	0	0	12	0	0	0	0	0	0	
Bolangir . .	25·8	..	28·9	1,2	15·3	..	13·0	27,31	0	0	..	0	..	0	..	4·0	3·3	..	0	0	0	0	0	0	0	0	0	0	0	
Angul . .	27·3	+0·6	29·0	4	14·8	+2·0	11·6	26,27	0	0	-3·6	0	..	0	-0·4	4·4	4·9	+0·1	0	0	0	0	0	0	0	0	0	0	0	
Keonjhar . .	25·9	..	27·2	15	13·1	..	9·3	26	0	0	..	0	..	0	..	4·8	3·3	..	0	0	0	0	0	0	0	0	0	0	0	
Sambalpur . .	27·8	+1·0	29·3	14	13·5	+1·4	9·1	26	0	0	-4·3	0	..	0	-0·3	3·7	2·1	-1·0	0	0	0	0	0	0	0	0	0	0	0	
Jharsuguda . .	27·9	..	29·1	15	12·9	..	8·1	26	0	0	..	0	..	0	..	5·7	4·8	..	0	0	0	0	0	0	0	0	0	0	0	
Chota Nagpur																														
Jamshedpur . .	27·3	+0·7	28·4	1,3,4	14·4	+3·6	9·5	26	0	0	-5·8	0	..	0	-0·4	4·2	2·7	+0·3	0	0	0	0	0	0	0	0	0	0	0	
Jamshedpur (P.B.O.)	28·0	..	29·5	3	14·2	..	9·9	26	0	0	..	0	..	0	..	1·3	0·7	..	0	0	0	0	0	0	0	0	0	0	0	
Chaibasa . .	27·4	+1·7	28·5	24,25	13·3	+2·4	8·8	26,27	0	0	-4·6	0	..	0	-0·4	1·8	1·1	-0·7	0	0	0	0	0	0	0	0	0	0	0	
Ranchi . .	26·1	+3·4	28·7	4,5	10·8	+0·5	7·6	27	0	0	-6·9	0	..	0	-0·6	2·0	2·1	-2·6	0	0	0	0	0	0	0	0	0	0	0	
Ranchi (C.W.O.)	24·0	..	25·6	7	11·6	..	5·6	26	0	0	..	0	..	0	..	9·9	6·7	..	0	0	0	0	0	0	0	0	0	0	0	
Daltonganj . .	26·3	+1·6	28·6	5	10·2	+2·1	6·0	26	0	0	-6·3	0	..	0	-0·5	3·5	1·6	-0·8	0	0	0	0	0	0	0	0	0	0	0	
Hazaribagh . .	24·8	+2·4	26·4	3,23	11·0	+1·0	5·9	27	0	0	-6·9	0	..	0	-0·5	8·2	5·7	-1·5	0	0	0	0	0	1	0	0	0	0	0	
Dhanbad . .	26·0	..	28·0	4	14·6	..	9·6	27	0	0	..	0	..	0	..	2·8	1·9	..	0	0	0	0	0	0	0	0	0	0	0	
Bihar																														
Purnea . .	25·8	+1·2	28·8	3	11·3	+1·6	6·1	27	0	0	-3·1	0	..	0	-0·3	4·5	2·2	+0·4	0	0	0	0	3	0	0	0	0	0	0	
Forbesganj . .	26·5	..	30·1	2,8	11·9	..	8·3	27,31	0·6	0·6	..	0·3	9,11	0	..	4·3	3·4	..	2	0	0	0	1	20	0	0	0	0	0	
Darbhanga . .	25·4	+0·7	28·7	2	..	..	..	..	0	0	-3·1	0	..	0	-0·3	2·8	1·4	-0·4	0	0	0	0	0	0	0	0	0	0	0
Motihari (R)
Muzaffarpur
Chapra
Arrah
Patna . .	24·7	+1·0	28·1	1	13·2	+1·9	7·5	27	0	0	-5·6	0	..	0	-0·5	5·1	4·7	+2·0	0	0	0	0	2	0	0	0	0	0	0	
Patna (Acrodrome)	24·7	..	27·8	1,15	11·5	..	5·4	27	0	0	..	0	..	0	..	6·3	2·2	..	0	0	0	0	12	0	0	0	0	0	0	
Dehri . .	25·5	..	28·3	11	12·8	..	9·6	5,27	0	0	-4·6	0	..	0	-0·5	4·8	2·3	..	0	0	0	0	0	0	0	0	0	0	0	
Gaya . .	25·2	+1·5	27·6	14	11·1	+1·9	6·9	27	0	0	-4·6	0	..	0	-0·4	7·1	4·9	-0·1	0	0	0	0	0	0	0	0	0	0	0	
Jamui . .	25·4	..	28·0	3	14·3	..	9·0	27	0	0	..	0	..	0	..	6·6	3·2	..	0	0	0	0	3	0	0	0	0	0	0	
Dumka . .	26·3	+1·6	28·3	5,16	13·5	+2·6	7·9	27	0	0	-3·3	0	..	0	-0·3	4·3	2·9	+1·1	0	0	0	0	0	0	0	0	0	0	0	
Bhagalpur . .	25·2	..	28·2	3	13·4	..	7·9	28	0	0	..	0	..	0	..	7·0	4·5	..	0	0	0	0	2	0	0	0	0	0	0	
Sabour . .	25·0	+0·7	28·1	2	11·3	+2·5	5·6	27	0	0	-3·1	0	..	0	-0·1	7·5	3·5	-0·8	0	0	0	0	6	0	0	0	0	0	0	
Uttar Pradesh (East)																														
Gonda . .	23·7	-0·6	27·9	2	11·0	+2·3	7·4	25	4·8	7·0	-1·1	4·8	23	1	-0·1	8·1	1·5	-1·9	3	0	0	0	4	0	0	0	0	0	0	
Nautanwa . .	23·9	..	..	..	11·8	..	8·8	30	0	0	..	0	..	0	..	2·3	1·2	..	0	0	0	0	9	0	0	0	0	0	0
Gorakhpur . .	24·3	+0·7	28·1	6	12·4	+2·5	8·8	30	0·3	0·3	-4·5	0·3	23	0	-0·4	3·3	2·2	+0·9	1	0	0	0	0	0	0	0	0	0	0	
Azamgarh . .	23·2	..	27·6	13	11·2	..	7·2	25	0	0	..	0	..	0	..	..	..	..	0	0	0								

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—DECEMBER, 1958
 (AGRAHAYANA 10—PAUSA 10, 1880 SAKA)

Division and station	Air temperature in °C										Rainfall in millimetres						No. of rainy days (2.5 mm. or more)		Wind speed, kms. per hour				Weather phenomena—No. of days with									
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.3 mm. or more)	Snow or sleet	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall					
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29			
Uttar Pradesh (West)—Contd.																																
Agra (Aerodrome)	24.6	-1.5	28.3	13	9.4	+2.5	5.3	25	0.2	3.1	+1.0	3.1	22	1	+0.2	4.7	2.7	+0.9	1	0	0	2	4	0	0	0	0	0	0			
Mainpuri	22.6	26.8	22	10.4	+2.5	4.8	26	8.0	10.4	1.0	+1.0	8.0	28	1	+0.2	4.6	3.3	-1.5	1	0	0	0	0	0	0	0	0	0	0			
Aligarh	23.6	+0.3	27.2	13	9.5	+1.1	6.2	26	0	11.8	+0.9	11.8	22	1	-0.2	4.6	3.3	-1.5	2	0	1	1	3	0	0	0	0	0	0			
Bareilly	23.5	+0.7	26.8	2	10.7	+2.6	6.6	26	2.8	9.4	-1.0	6.6	22	2	+1.0	3.6	2.4	+0.5	2	0	1	1	0	0	0	0	0	0	0			
Meerut	22.8	+0.1	27.2	13	9.0	+2.0	3.7	26	..	35.4	+23.2	18.0	28	2	+0.8	..	4.4	..	2	0	1	0	0	0	0	0	0	0	0			
Najibabad	21.8	..	26.5	2	8.9	..	4.3	27	1.6	46.4	..	37.8	22	2	..	2.3	1.8	..	2	0	0	2	8	0	0	0	0	0	0			
Roorkee	21.2	+0.6	25.6	24	9.5	+3.2	6.3	31	4.3	31.0	+13.7	27.9	22	1	-0.3	4.3	2.5	+0.4	3	0	0	1	0	0	0	0	0	0	0			
Dehra Dun	21.1	+0.7	24.4	3	8.9	+1.6	3.9	26	9.4	51.1	+25.2	40.2	22	3	+1.3	3.6	4.1	+0.7	3	0	0	2	0	0	0	0	0	0	0			
Punjab (India) (Including Delhi)																																
New Delhi	23.4	+0.3	28.3	11	9.8	+3.0	5.9	26	1.4	4.7	-6.2	2.4	27	0	-0.9	12.3	8.1	-0.3	2	0	0	0	5	0	0	0	0	0	0			
Hissar	22.8	-0.6	29.2	11	7.7	+1.5	3.9	26	11.6	20.7	+10.8	11.6	22	3	+2.0	3.4	2.9	-1.9	3	0	0	2	6	0	0	0	0	0	0			
Karnal	22.1	..	27.8	12	8.4	..	3.3	26	2.8	25.8	..	23.6	22	1	..	..	..	..	2	0	0	0	0	0	0	0	0	0	0
Patiala	22.3	..	27.2	10	8.7	..	2.9	26	7.6	22.0	+9.1	12.4	22	2	+0.8	7.7	6.6	..	4	0	0	0	0	0	0	0	0	0	0			
Ambala	22.9	+0.5	27.3	10	9.3	+2.7	3.9	26	6.7	26.9	+7.6	14.8	23	5	+3.5	8.0	5.5	+2.1	5	0	0	0	0	0	0	0	0	0	0			
Ambala (Aerodrome)	21.7	..	25.6	210	8.4	..	3.9	18,26	9.5	27.8	..	20.0	22	2	..	..	..	..	5	0	0	3	6	0	0	0	0	0	0
Chandigarh	22.6	..	27.9	23	8.9	..	4.8	26	9.4	24.6	..	14.2	22	4	..	..	..	..	4	0	0	0	0	2	0	0	0	0	0
Ludhiana	22.5	+0.9	27.0	10	..	..	..	..	15.3	40.9	+22.6	15.3	22	4	+2.6	3.5	2.1	+0.3	4	0	0	0	0	0	0	0	0	0	0
Ferozepur	19.4	..	23.8	9,10	6.8	..	2.9	26	30.1	66.5	..	19.5	27	5	..	2.6	1.1	..	5	0	0	0	0	0	0	0	0	0	0			
Amritsar	20.5	..	27.7	3	6.8	..	3.3	26	29.7	61.4	..	14.4	15	6	..	7.0	5.9	..	6	0	0	1	6	0	0	0	0	0	0			
Pathankot	20.9	..	26.0	2	9.4	..	5.4	24	69.2	96.4	..	43.4	15	5	..	2.6	2.0	..	8	0	0	1	0	0	0	0	0	0	0			
Pathankot (Acrodrome)	20.4	..	21.2	8,9	8.5	..	4.9	31	63.8	91.2	..	31.9	15	5	..	6.2	5.0	..	7	0	1	3	1	0	0	0	0	0	0			
Himachal Pradesh																																
Bilaspur	21.2	..	24.9	3	7.4	..	4.7	25	13.0	54.2	..	29.8	22	4	..	3.2	2.7	..	5	0	0	2	26	0	0	0	0	0	0			
Mandi	20.9	..	21.6	2	3.2	..	2.2	26	15.7	72.3	..	35.3	22	5	..	2.4	2.0	..	6	0	0	3	21	0	0	0	0	0	0			
Jammu and Kashmir																																
Srinagar	8.3	-0.7	16.8	8	0.3	+2.7	-2.2	1	32.2	96.5	+63.0	52.2	22	4	+0.8	4.8	4.2	+1.0	6	3	0	0	0	0	8	0	0	0	0	0		
Gulmarg	Closed		
Sonamarg*		
Dras		
Kargil		
Leh	4.8	+3.0	10.6	6	-7.5	+3.2	-11.1	18	0	4.0	-0.8	2.5	28	1	+0.4	4.0	4.0	+1.7	2	4	0	0	0	0	0	0	0	0	0			
Skardu (R)		
Gurez (R)		
Gilgit (R)		
Misgar (R)		
Jammu	20.8	+0.8	25.8	2	9.6	+0.1	6.7	26	..	107.4	+75.9	40.8	14	7	+4.4	
Gund	37.4	..	23.0	14	3	
Pandras	11.8	..	2.5	14	1	
Panamik	0	..	0	..	0	
Khangral	10.0	..	1.3	4,23,31	0		
Digar	3.0	..	1.5	21,28	0	
Khalatse	2.3	..	1.3	22	0	
Mulbik (R)
Rajasthan (West)																																
Sri Ganganagar	22.3	-0.8	28.8	9,10	8.5	+4.1	5.3	25,26	15.0	49.0	+45.9	29.6	27	5	+4.0	1.7	1.1	-4.7	5	0	0	0	3	0	0	0	0	0	0			
Churu	23.7	..	29.1	10	8.7	..	3.7	25	3.0	5.2	..	5.2	22	1	..	7.2	4.7	..	1	0	0	2	7	0	0	0	0	0	0			
Bikaner	23.9	-0.8	30.2	10	8.7	+3.1	3.2	25	0.5	7.5	+2.4	7.0	27	1	+0.5	4.1	3.0	-1.0	2	0	0	0	3	0	0	0	0	0	0			
Jaisalmer	25.1	..	31.7	13	11.1	..</td																										

(B) Register not received.

*Data not reliable.

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—DECEMBER, 1958
 (AGRAHAYANA 10—PAUSA 10, 1880 SAKA)

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—DECEMBER, 1958
(AGRAHAYANA 10—PAUSA 10, 1880 SAKA)

Division and station	Air temperature in °C								Rainfall in millimetres								(No. of rainy days (2.5 mm. or more))		Wind speed kms. per hour		Weather phenomena—No. of days with									
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
Konkan																														
Dahanu . .	30.4	+1.7	34.0	5	19.1	+1.8	16.0	29	0	0	0	0	..	0	0	14.2	10.5	-1.1	0	0	0	0	0	0	0	0	0	0	0	0
Bombay (Colaba) . .	31.8	+1.5	34.9	2	21.6	+1.2	17.8	28	0	0	-2.0	0	..	0	-0.2	8.4	6.6	-3.9	0	0	0	0	0	0	0	0	0	0	0	0
Bombay (Santa Cruz Aerodrome) . .	32.3	+1.2	35.2	2	19.3	+3.6	15.4	28	0	0	-2.0	0	..	0	-0.2	11.5	8.6	..	0	0	0	0	0	0	0	0	0	0	0	
Alibag . .	29.9	+0.3	33.6	3	19.9	+1.5	16.9	28	..	0	-3.8	0	..	0	-0.4	..	7.2	0	0	0	0	0	0	0	0	0	0	0	0	
Harnai . .	30.1	+0.6	33.3	2	23.5	+1.5	20.6	28	0	0	-1.3	0	..	0	-0.2	14.3	12.7	+1.6	0	0	0	0	0	0	0	0	0	0	0	
Ratnagiri . .	32.2	..	34.7	6	21.2	..	18.3	8,12	0	0	-3.8	0	..	0	-0.3	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Devgad . .	31.5	+0.6	34.2	5	22.5	+1.1	20.4	7	0	0	-8.9	0	..	0	-0.6	14.0	11.6	+1.3	0	0	0	0	0	0	0	0	0	0	0	
Vengurla . .	33.1	..	34.8	6	20.0	..	17.2	7	0	1.5	..	1.5	1	0	..	9.7	6.1	..	1	0	0	0	0	0	0	0	0	0	0	
Maharashtra																														
Nandurbar . .	31.1	..	34.9	31	16.8	..	13.5	17	0	0	..	0	..	0	..	9.3	5.6	..	0	0	0	0	0	0	0	0	0	0	0	
Jalgaon . .	29.9	..	32.5	1	13.6	..	9.3	28	0	0	-5.6	0	..	0	-0.4	11.9	10.0	..	0	0	0	0	0	0	0	0	0	0	0	
Malegaon . .	29.8	+0.4	32.2	1	13.5	+2.2	9.4	28	0	0	-5.3	0	..	0	-0.4	6.7	4.5	-0.2	0	0	0	0	0	0	0	0	0	0	0	
Deolali . .	28.6	..	31.1	1	13.2	..	8.6	12	0	0	..	0	..	0	..	8.8	5.1	..	0	0	0	0	0	0	0	0	0	0	0	
Aurangabad . .	28.3	-0.3	30.0	1,18	14.9	+1.7	11.1	12	0	0	-6.9	0	..	0	-0.5	7.2	5.9	-1.0	0	0	0	0	0	0	0	0	0	0	0	
Aurangabad (Chikalthana Aerodrome) . .	27.8	..	29.5	27	11.6	..	6.7	12	0	0	..	0	..	0	..	8.1	4.4	..	0	0	0	0	0	0	0	0	0	0	0	
Khandala . .	..	..	..	..	..	..	..	..	..	0	-3.1	0	..	0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ahmednagar . .	29.1	+0.7	30.9	5	13.5	+1.9	9.8	12	0	1.5	-5.1	1.5	1	0	-0.5	7.8	5.4	-0.1	1	0	0	0	0	0	0	0	0	0	0	
Parbhani . .	28.3	..	31.3	1	13.3	..	10.0	11	0	0	-5.6	0	..	0	-0.4	8.1	5.3	..	0	0	0	0	0	0	0	0	0	0	0	
Poona . .	29.9	+0.5	31.9	1	14.4	+2.7	10.8	12	0	0	-3.8	0	..	0	-0.5	4.9	2.4	-3.2	0	0	0	0	0	0	0	0	0	0	0	
Poona (Lohagaon Aerodrome) . .	29.2	..	32.2	1	15.6	..	12.1	7	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Baramati . .	30.0	..	31.7	1	14.7	..	11.0	12	0	4.4	..	4.4	1	1	..	8.8	6.5	..	1	0	0	0	0	0	0	0	0	0	0	
Jeur . .	30.0	..	33.1	1	14.3	..	9.7	11	0	0	..	0	..	0	..	10.0	6.3	..	0	0	0	0	0	0	0	0	0	0	0	
Sholapur . .	29.7	0	31.2	28	16.4	+1.7	12.4	11	0	0	-12.4	0	..	0	-0.7	(c)	5.2	5.6	-3.6	0	0	0	0	0	0	0	0	0	0	
Miraj . .	30.1	+1.2	32.1	1	16.7	+2.8	12.8	8	0	0	-7.1	0	..	0	-0.6	..	..	0	0	0	0	0	0	0	0	0	0	0	
Kolhapur . .	30.2	+0.6	32.4	1	16.2	+1.6	12.7	8	0	0	-2.8	0	..	0	-0.2	13.4	8.3	-4.4	0	0	0	0	0	0	0	0	0	0		
Vidarbha																														
Buldhana . .	25.5	..	29.4	23	14.4	..	13.2	6,12	0	0	..	0	..	0	..	7.6	6.0	..	0	0	0	0	0	0	0	0	0	0	0	
Akola . .	29.4	+0.1	31.2	1	13.9	+2.1	10.6	11	0	0	-13.7	0	..	0	-0.9	6.0	4.3	+0.4	0	0	0	0	0	0	0	0	0	0	0	
Amravati . .	28.2	-0.2	29.6	1	15.2	+0.5	12.8	26	0	0	-11.2	0	..	0	-0.8	7.3	7.0	+1.7	0	0	0	0	0	0	0	0	0	0	0	
Yeotmal . .	27.6	..	29.6	1	15.1	..	12.7	6	0	0	..	0	..	0	..	9.6	8.3	..	0	0	0	0	0	0	0	0	0	0	0	
Nagpur . .	27.4	-1.0	29.3	15	12.1	+0.4	7.8	26	0	0	-11.9	0	..	0	-0.8	7.0	5.1	..	0	0	0	0	0	0	0	0	0	0	0	
Gondia . .	26.8	..	28.0	1	13.3	..	9.4	26	0	0	..	0	..	0	..	3.3	1.6	..	0	0	0	0	0	0	0	0	0	0	0	
Brahmapuri . .	27.7	..	29.2	1	13.6	..	9.8	26	0	0	..	0	..	0	..	4.9	2.4	..	0	0	0	0	0	0	0	0	0	0	0	
Chanda . .	28.1	0	30.4	1	12.6	+1.0	8.5	26	0	0	-6.9	0	..	0	-0.7	5.6	3.1	+1.0	0	0	0	0	0	0	0	0	0	0	0	
Sironcha . .	29.4	..	32.2	1	14.9	..	11.0	26	0	0	..	0	..	0	..	4.7	2.6	..	0	0	0	0	0	0	0	0	0	0	0	
Coastal Andhra Pradesh																														
Nellore . .	28.7	0	31.6	1	21.1	+0.9	19.2	28	47.4	79.3	+6.7	20.2	15	5	+2.0	9.5	5.4	+0.6	9	0	0	0	0	0	0	0	0	0	0	
Ongole . .	27.1	..	29.6	1	20.2	..	17.6	31	0	4.0	..	4.0	14	1	..	1.4	1.0	..	1	0	0	0	0	0	0	0	0	0	0	
Rentachintala . .	30.3	+0.4	31.1	2,23	16.9	+0.3	15.5	25	0	0	-3.1	0	..	0	-0.4	3.7	1.9													

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—DECEMBER, 1958.
(AGRAHAYANA 10—PAUSA 10, 1880 SAKA)

Division and station	Air temperature in °C									Rainfall in millimetres						No. of rainy days (2·5 mm. or more)	Wind speed, kms. per hour			weather phenomena—No. of days with									
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Haviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation(0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground froz.	Gale	Squall	Line squall	
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
Madras State																													
Palayamcottai	29·2	..	30·7	25	23·3	..	22·0	30	13·4	18·8	-88·9	11·6	5	2	-3·4	14·5	10·9	..	3	0	0	0	0	0	0	0	0	0	
Tuticorin	28·2	..	29·2	1,2	23·2	..	21·7	31	0	19·0	..	19·0	4	1	..	24·2	22·0	..	1	0	0	0	0	0	0	0	0	0	
Pamban	29·1	+1·0	30·1	2	24·8	+1·0	23·7	16	31·2	61·7	-131·1	19·6	2	5	-4·4	13·2	14·7	-3·6	14	0	0	0	0	0	0	0	0	0	
Mathurai	30·5	+1·2	31·7	2,4	22·2	+1·0	19·0	14	2·6	14·8	-36·3	9·2	4	2	-1·6	8·5	6·3	-0·5	4	0	0	0	0	0	0	0	0	0	
Mathurai (Aero-drome)	30·4	..	31·3	2	21·7	..	19·8	22	5·4	15·3	..	8·9	4	2	..	..	..	..	4	0	0	0	0	0	0	0	0	0
Nagapattinam	28·4	+0·6	30·0	3	23·6	+1·2	21·7	21	16·8	75·6	-202·5	20·6	22	10	+0·9	20·3	20·0	+6·6	15	0	0	0	0	0	0	0	0	0	
Tiruchirapalli	30·1	+0·6	31·9	4	21·7	+0·9	18·9	29	28·6	44·0	-27·1	31·7	5	3	-1·5	14·5	11·8	+3·1	5	0	0	0	0	0	0	0	0	0	
Coimbatore	28·5	-0·6	30·1	1	20·4	+1·5	18·3	16	3·6	6·6	-27·9	3·6	5	1	-1·6	9·9	6·8	+2·8	3	0	0	0	0	0	0	0	0	0	
Coimbatore (Peela-medu Aerodrome)	30·3	..	31·8	27	19·6	..	15·7	16	3·4	4·8	..	3·4	5	1	..	16·8	10·9	..	3	0	0	0	0	0	0	0	0	0	
Salem	31·0	+0·9	32·6	4	20·1	+1·3	17·8	30	10·4	12·4	-13·8	8·0	5	1	-1·2	9·7	9·6	+4·3	4	0	0	0	0	0	0	0	0	0	
Kallakurichi	29·3	..	31·5	28	21·3	..	18·9	29	15·1	24·7	..	7·8	8	2	..	13·1	9·5	..	9	0	0	0	0	0	0	0	0	0	
Cuddalore	28·4	+0·3	29·4	4 days	22·1	+0·9	20·3	29	2·8	53·0	-137·3	16·2	8	7	+0·7	12·6	8·4	+0·7	12	0	0	0	0	0	0	0	0	0	
Vellore	28·0	0	29·9	1	19·9	+1·7	17·2	29	12·7	45·3	-21·2	28·5	4	3	-0·9	9·0	6·8	+3·1	10	0	0	0	0	0	0	0	0	0	
Tirupattur	28·7	..	30·5	1	18·2	..	15·6	4 days	0	0	..	0	..	0	..	6·3	4·2	..	0	0	0	0	0	0	0	0	0	0	0
Tambaram (Aero-drome)	28·1	..	31·0	16	21·4	..	19·4	28	25·9	56·3	..	19·8	4	5	..	..	..	..	13	0	0	0	0	0	0	0	0	0
Madras	28·3	-0·6	30·3	1	21·9	+1·4	20·1	28	11·4	65·9	-72·5	22·2	11	6	+0·6	17·1	10·3	-3·4	13	0	0	0	0	0	0	0	0	0	
Madras (Nungambakkam)	28·2	..	30·0	1	22·3	..	20·3	28	..	91·6	..	39·2	11	6	..	..	6·4	..	10	0	0	1	0	0	0	0	0	0
Coastal Mysore																													
Karwar	31·0	..	33·9	5	19·4	..	16·9	7	0	0	-5·8	0	..	0	-0·3	10·1	6·2	..	0	0	0	0	0	0	0	0	0	0	
Honavar	32·7	0	34·3	11,25	22·0	+1·1	19·9	22	0	0	-5·1	0	..	0	-0·4	4·2	2·7	-2·0	0	0	0	0	0	0	0	0	0	0	
Mangalore	32·3	+0·6	33·6	5	22·7	+0·9	20·6	22	0	5·2	-7·7	5·2	1	1	+0·3	12·0	8·7	+1·5	1	0	0	1	0	0	0	0	0	0	
Mangalore (Bajpe Aerodrome)	32·6	..	33·6	21	21·3	..	19·4	22	0	2·0	..	2·0	1	0	..	..	..	..	1	0	0	0	0	0	0	0	0	0
Mysore (North)																													
Bidar	27·2	-0·1	29·4	28	16·2	-0·2	14·6	12	0	0	-6·1	0	..	0	-0·5	11·6	9·3	+0·4	0	0	0	0	0	0	0	0	0	0	
Gulbarga	29·5	-0·2	30·9	28	16·3	+1·5	13·3	7	0	0	-3·8	0	..	0	-0·3	11·0	9·5	-1·6	0	0	0	0	0	0	0	0	0	0	
Bijapur	29·9	+0·9	31·8	6	16·9	+2·1	13·1	11	0	0	-6·3	0	..	0	-0·6	6·7	4·3	+0·6	0	0	0	0	0	0	0	0	0	0	
Belgaum (C.T.O.)	28·7	-0·5	30·9	27	15·6	+1·7	12·2	7	0	0	-8·6	0	..	0	-0·5	12·1	6·0	+0·2	0	0	0	0	0	0	0	0	0	0	
Belgaum (Sambre Aerodrome)	..	..	..	..	..	..	..	..	0	2·0	..	2·0	1	0	..	..	..	..	1	0	0	0	0	0	0	0	0	0
Gadag	29·4	+0·8	32·2	28	17·7	+1·4	15·6	3	0	1·6	-8·8	1·6	1	0	-0·6	11·4	7·8	+0·7	1	0	0	0	1	0	0	0	0	0	
Raichur	29·4	+0·1	31·5	1	18·9	+1·3	16·1	3,30	0	0	-3·3	0	..	0	-0·3	(m) 8·9	7·6	-0·9	0	0	0	0	0	0	0	0	0	0	0
Mysore (South)																													
Bellary	29·7	-0·1	31·8	28	18·9	+2·3	17·3	22	0	0	-3·3	0	..	0	-0·3	9·5	5·7	+1·8	0	0	0	0	0	0	0	0	0	0	
Chitaldrug	27·2	-0·8	29·7	28	17·3	+0·7	14·9	22	2·6	2·6	-10·6	2·6	5	1	+0·2	10·3	7·8	+0·4	1	0	0	0	0	0	0	0	0	0	
Shimoga	29·1	..	32·2	28	16·1	..	12·5	24	0	0	..	0	..	0	..	10·5	5·1	..	0	0	0	0	7	0	0	0	0	0	
Balehonnur	26·4	+0·3	28·4	28	15·7	+0·9	13·6	22	..	0	-11·9	0	..	0	-0·8	..	..	..	0	0	0	0	0	0	0	0	0	0
Hassan	26·4	-0·6	29·1	28	15·9	+1·7	13·4	22,24	4·4	4·8	-12·0	4·8	5	1	-0·1	8·0	4·9	+0·1	1	0	0	0	1	0	0	0	0	0	
Mysore	26·8	-0·9	29·7	27	17·3	+1·1	15·5	5 days	2·2	3·2	-7·0	2·2	5	0	-0·9	16·7	13·0	+2·9	2	0	0	0	0	0	0	0	1	0	
Bangalore (Central Observatory)	25·4	-0·3	28·3	27	16·0	+1·4	14·2	30	2·1	6·2	-5·0	2·8	9	1	-0·2	11·7	10·0	+2·3	6	0	0	0	4	0	0	0	0	0	
Bangalore (Aero-drome)	27·1	..	29·6	1,28	16·2	..	14·2	14,22	2·4	4·1	..	2·2	5	0	..	..	..	..	4	0	0	0	6	0	0	0	1	0
Kerala																													
Kozhikode	32·0	+1·1	33·4	5	22·8	+1·0	20·8	7	0	29·0	+3·3	29·0	5	1	-0·6	10·3	9·1	+2·7	1	0	0	1	0	0	0	0	0	0	
Palghat	32·9	..	34·5	27	22·9	..	21·4	16	5·0</																				

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—DECEMBER, 1958.
(AGRAHAYANA 10—PAUSA 10, 1880 SAKA)

Division and station	Air temperature in °C									Rainfall in millimetres						No. of rainy days, (2·5 mm. or more)	Wind speed, kms. per hour.				Weather phenomena—No. of days with									
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29		
Hill Stations (excluding Kashmir)—(Contd.)																														
Kalimpong	20·6	+3·8	24·7	16, 21, 29	14·1	+5·1	10·1	1	0	2·5	-5·6	2·5	10	1	+0·3	6·1	4·6	-6·3	1	0	0	0	0	0	0	0	0	0		
Katmandu (Hydromet.)	18·6	..	22·7	4	5·9	..	-0·4	24	0	0	..	0	..	..	..	2·5	1·0	..	0	0	0	0	0	0	0	0	0	0
Muktiswar (Kumaon)	13·5	+1·7	17·3	4	4·6	+1·0	-1·4	20	12·3	57·3	+30·6	38·1	22	3	+1·2	10·5	10·3	+1·9	4	3	0	2	4	0	0	0	0	0		
Nanital	13·7	..	17·2	26	4·4	..	0·6	28	12·6	86·1	..	64·6	22	3	..	8·7	7·2	..	3	2	0	0	0	0	0	0	0	0		
Joshimath	14·1	..	17·2	1, 4	4·7	..	0·8	23	6·6	44·4	..	41·8	22	1	..	5·3	6·6	..	3	0	1	0	1	0	0	0	0	0		
Badrinath	..								closed during winter months.																					
Lokpal	-1·8	..	0·2	5	-1·5	..	-11·9	28	..	152·6	..	61·0	22	8	..	..	..	..	8	..	..	..	..	..	..	..	..	..
Jamuna Chetty	..	..	..	..	..	..	..	..	..	17·2	..	10·9	22	2	..	..	2	..	..	..	..	..	..	..	..	..	..	..
Mussooree	12·9	+0·9	18·7	25	5·1	+0·9	-0·8	28	14·2	54·6	+19·5	39·0	22	3	+0·4	8·7	8·0	+0·8	3	0	0	1	3	0	0	0	0	0		
Kharsali	..	..	..	..	..	..	..	..	..	84·0	..	25·6	12	4	..	..	..	..	4	..	..	..	..	..	..	..	..	..
Rana	..	..	..	..	..	..	..	..	..	17·0	..	9·9	28	2	..	..	..	..	2	..	..	..	..	..	..	..	..	..
Simla	12·9	+2·6	19·6	5	5·8	+1·7	0	28	9·4	35·2	+3·7	18·1	22	4	+1·6	4·2	3·7	+1·6	5	2	0	2	0	0	0	0	0	0		
Dharampore	..	..	..	..	..	..	..	..	..	54·0	+8·8	31·0	22	5	+2·5	..	..	..	5	..	..	..	..	..	..	..	..	..
Kyelang	..	..	..	..	..	..	..	..	..	146·5	+118·0	27·7	20	8	+5·1	..	..	..	8	..	..	..	..	..	..	..	..	..
Gondia	..	..	..	..	..	..	..	..	..	141·3	..	48·3	21	6	..	..	..	..	8	..	..	..	..	..	..	..	..	..
Kothi	..	..	..	..	..	..	..	..	..	183·7	..	43·7	27	10	..	..	..	..	9	..	..	..	..	..	..	..	..	..
Koksar	..	..	..	..	..	..	..	..	..	168·9	..	41·7	22	7	..	..	..	..	10	..	..	..	..	..	..	..	..	..
Dalhousie	16·9	..	21·6	5, 6	6·8	..	0·1	15	116·9	260·8	+163·0	132·2	22	7	+2·5	2·7	2·2	..	7	0	0	0	0	0	0	0	0	0		
Dharamshala	17·3	..	20·5	1	9·0	..	5·6	28, 31	53·7	166·7	..	60·5	22	5	..	3·0	2·1	..	7	0	0	..	0	0	0	0	0	0		
Abu	18·5	-1·7	22·9	8, 9	11·1	-0·3	5·6	29	0	0	-3·1	0	..	0	-0·3	6·6	6·2	+1·5	0	0	0	0	0	0	0	0	0	0		
Pachmarhi	22·9	+1·1	24·3	27	7·1	-0·6	2·8	25	0	0	-10·9	0	..	0	-0·8	4·3	2·4	-0·5	0	0	0	0	0	0	0	0	0	0		
Mahabaleshwar	23·7	+1·1	26·1	1	13·8	+0·2	11·2	4	0	0	-6·6	0	..	0	-0·6	8·6	9·7	-1·7	0	0	0	0	0	0	0	0	0	0		
Nandi Hills	21·2	..	23·4	3	14·5	..	11·1	19	..	3·0	..	3·0	5	1	..	9·0	..	1	0	0	0	0	31	0	0	0	0			
Mercara	23·6	-0·2	27·5	27	15·3	+1·0	11·4	23	0	0	-18·3	0	..	0	-1·2	13·7	12·2	+4·8	0	0	0	0	0	0	0	0	0	0		
Kodaikanal	16·1	-0·4	18·8	25, 29	7·8	-0·6	5·2	14	21·9	48·3	-82·8	17·4	5	5	-2·1	11·5	11·9	-1·3	9	0	0	0	18	0	0	0	0	0		
Ootacamund	19·1	+0·8	21·2	7, 26	3·1	-3·5	0·6	7	2·4	8·0	-35·7	5·8	5	1	-2·7	4·7	2·9	-1·8	2	0	0	0	0	9	0	0	0	0		
Coonoor	18·7	0	22·1	27	10·3	+0·7	7·4	21	..	69·4	-72·3	29·6	5	6	-0·6	..	5·0	-0·1	13	0	0	0	0	0	0	0	0	0		
Sikkim																														
Thangu	..	..	..	..	..	..	..	..	..	0	..	0	..	0	..	..	..	..	0	..	..	..	..	..	..	..	..	..
Chungthang	..	..	..	..	..	..	..	..	..	0	..	0	..	0	..	..	..	..	0	..	..	..	..	..	..	..	..	..
Lachen	10·3	..	13·3	31	-3·5	..	-5·0	8, 9	..	9·0	..	5·0	9	2	..	..	..	..	2	..	..	..	..	..	..	..	..	..
Tibet Yatung (Chumbi)(R)																			3	0	0	0	0	0	0	0	0	0		
Lhasa	8·7	..	12·2	6, 29	-7·9	..	-10·6	25	..	0	..	0	..	0	..	..	..	..	3	0	0	0	0	0	0	0	0	0
Ceylon																			7	0	0	5	0	0	0	0	0	0		
Colombo	30·8	+0·6	32·8	17	22·6	+0·1	21·2	30	23·1	163·4	+21·7	53·6	2	5	-2·6	..	..	..	17	0	0	0	0	0	0	0	0	0
Trincomalee	28·2	+0·1	29·9	1	25·1	+1·5	22·9	6	91·0	258·1	-88·9	103·6	26	11	-2·6	..	..	..	21	0	0	0	0	0	0	0	0	0
Batticaloa	28·0	..	29·1	2	23·6	..	21·2	6	136·1	425·0	..	122·9	26	17	..	..	..	..	7	0	0	0	1	0	0	0	0	0
Hambantota	30·2	+1·0	31·9	15	23·7	+1·0	21·1	31	15·6	41·2	-85·5	18·8	27	3	-5·3	..	..	..	9	0	0	1	0	0	0	0	0	0
Mannar	29·3	..	30·7	17	24·5	..	21·7	26	48·2	71·8	..	18·5	4	8	..	..	..	..	0	..	..	..	..	..	..	..	..	..
Hydrometeorological Observatories Damodar Catchment																														
Bokaro	26·1	..	28·0	15	10·4	..	5·4	26	0	0	..	0	..	0	..	6·1	3·8	..	0	0	0	0	0	3	0	0	0	0		
Hazaribagh	23·1	..	25·0	15	10·1	..	5·3	26	0	0	..	0	..	0	..	4·7	2·5	..	3	0	0	0	0	0	0	0	0	0		
Tilaiya	24·0	..	26·6	15	12·0	..	6·5	27	0	0	..	0	..	0	..	9·0	4·7	..	0	0	0	0	3	0	0	0	0	0		
Ramgarh	26·4	..	30·6	1	10·9	..	5·1	27, 28	0	0	..	0	..	0	..	3·4	1·5	..	0											

TABLE II.—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—DECEMBER, 1958.
(AGRAHAYANA 10, —PAUSA 10 1880 SAKA)

Division and station	Air temperature in °C								Rainfall in millimetres				No. of rainy days. (2.5 mm. or more)	Wind speed, kms. per hour.			Weather phenomena—No. of days with											
	Mean maximum 2	Departure from normal 3	Highest 4	Date 5	Mean minimum 6	Departure from normal 7	Lowest 8	Date 9	Total fall during 0830-1730 hours 10	Total fall in 24 hours 11	Departure from normal 12	Heaviest fall in 24 hours 13	Date 14	Total in the month 15	Departure from normal 16	Mean between 0830-1730 hours 17	Mean 24 hours 18	Departure from normal 19	Precipitation (0.3 mm. or more) 20	Snow or sleet 21	Hail 22	Thunder heard 23	Fog 24	Dust-storm 25	Ground frost 26	Gale 27	Squall 28	Lane squall 29
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Hydrometeorological Observatories—(Contd.)																												
Mahanandi Catchment—(Contd.)																												
Khijrawar . . .	26.5	..	27.9	4	12.3	..	5.9	25	0	0	..	0	..	0	..	4.5	2.2	..	0	0	0	0	0	0	0	0	0	0
Sonepur . . .	28.0	..	29.8	1	14.7	..	10.2	26	..	0	..	0	..	0	..	..	2.1	..	0	..	..	..	..	..	..	..	..	..
Ginabahar . . .	27.6	..	30.8	2	10.0	..	4.3	28	..	0	..	0	..	0	..	..	..	..	0	..	..	..	..	..	..	..	..	..
Bhimkund . . .	27.2	..	28.1	11,13,	12.7	..	8.0	26	..	0	..	0	..	0	..	3.4	2.3	..	0	0	0	0	0	0	0	0	0	0
Nerbada Catchment																												
Punasa . . .	29.4	..	31.9	21,23	11.6	..	7.8	29	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0
Bagra Tawa . . .	27.5	..	29.5	19,20, 21	9.8	..	6.0	25	0	0	..	0	..	0	..	3.7	2.1	..	0	0	0	0	0	0	0	0	0	0
Thikri . . .	29.7	..	32.3	1,21	13.2	..	8.4	29	..	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0
Sabarmati Catchment																												
Jhadol . . .	26.9	..	29.4	30	..	..	..	..	..	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0
Sainwara (Surajgarh) Bikrani . . .	..	..	..	..	..	..	..	..	..	0	..	0	..	0	..	..	..	..	0	..	..	..	..	..	..	..	..	..
Tarpal(R) . . .																												
Kotra Cantonment . . .	..	..	..	..	..	..	..	..	..	0	..	0	..	0	..	..	..	..	0	..	..	..	..	..	..	..	..	..
Dharoi . . .	29.2	..	32.2	1	13.9	..	9.7	29	0	0	..	0	..	0	..	..	..	..	0	..	..	..	..	..	..	..	..	..
Ganga Catchment																												
Mukhimp . . .	14.9	..	18.5	1	5.8	..	0.3	22	7.8	50.4	..	39.2	22	3	..	..	..	..	3	0	0	0	0	7	0	0	0	0
Tehri . . .	22.3	..	26.0	2	8.0	..	3.6	26	7.2	53.2	..	39.8	22	3	..	2.2	1.6	..	3	0	0	0	0	6	0	0	0	0
Gandak Catchment																												
Gorkha . . .	18.8	..	22.2	4	11.2	..	8.7	25	6.6	11.9	..	5.3	28	2	..	..	..	..	3	..	..	..	..	..	..	..	..	..
Pokhara . . .	20.6	..	24.3	1	11.5	..	6.8	25	24.7	36.4	..	11.7	10	4	..	..	..	..	6	..	..	..	..	..	..	..	..	..
Nawakot . . .	20.2	..	23.9	1,4	11.5	..	8.2	31	0.3	2.1	..	1.0	28	0	..	..	..	..	3	..	..	..	..	..	..	..	..	..
Jomosom . . .	..	..	..	..	..	..	..	..	0	0	..	0	..	0	..	..	..	..	0	..	..	..	..	..	..	..	..	..
Timure . . .	16.2	..	19.5	5	5.1	..	1.6	24	0	2.0	..	2.0	28	0	..	..	..	..	1	..	..	..	..	..	..	..	..	..
Gogra Catchment (Trans Himalayan Region)																												
Daijekh . . .	16.5	..	19.4	5	8.2	..	5.0	23	0.8	26.5	..	15.5	22	2	..	..	..	..	3	..	..	..	..	..	..	..	..	..
Gogra Catchment																												
Dandeldhura(R) . . .																												
Munsiyari . . .	..	..	..	..	..	..	..	..	..	37.6	..	25.0	22	2	..	..	..	..	3	..	..	..	..	..	..	..	..	..
Sallyana(R) . . .																												
Butwal . . .	23.4	..	27.2	6,7	13.3	..	6.2	24,25	0	0	..	0	..	0	..	..	..	..	0	..	..	..	..	..	..	..	..	..
Bagmati Catchment																												
Katmandu* . . .																												
Kosi Catchment																												
Chautara . . .	18.0	..	22.3	9	9.2	..	5.7	24	0	0	..	0	..	0	..	..	..	..	0	..	..	..	..	..	..	..	..	..
Okhaldunga (R) . . .																												
Barahkshetra . . .	24.4	..	27.7	7	13.5	..	10.4	31	0.5	0.5	..	0.5	9	0	..	6.2	4.4	..	1	0	0	0	1	0	0	0	0	0
Angbung . . .	19.2	..	23.2	4	10.5	..	7.2	25	..	1.0	..	0.5	7,13	0	..	..	..	..	2	..	..	..	..	..	..	..	..	..
Taplejung . . .	15.3	..	19.1	4	..	..	..	..	0.5	7.9	..	4.3	7	2	..	..	..	..	3	0	0	0	4	0	0	0	0	0
Taplethok . . .	20.3	..	22.4	13	7.7	..	4.8	31	..	4.6	..	4.6	12	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..
Wallungchung Gola	7.9		13.6	27	-2.4	..	-5.6	19	0	0	..	0	..	0	..	..	..	..	0	..	..	..	..	..	..	..	..	..
Bhojpur . . .	16.3	..	19.9	4	8.5	..	5.8	24	0	0	..	0	..	0	..	..	..	..	0	..	..	..	..	..	..	..	..	..
Chainpur . . .	18.3	..	22.4	2	10.7	..	8.2	25	2.3	2.3	..	2.3	11	0	..	..	..	..	1	..	..	..	..	..	..	..	..	..
Tista Catchment																												
Gangtok . . .	14.2	..	20.2	1	6.4	..	3.9	25	0.5	16.2	..	6.7	18	2	..	3.5	2.5	..	6	..	..	..	8	..	..	..	..	..
Geyzing . . .	17.2	..	21.4	5	11.0	..	9.3	20	0	0	..	0	..	0	..	..	..	..	0	..	..	..	..	..	..	..	..	..

(R) Register not received

(e) Mean of 28 days.

*Data included under Hill stations

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—DECEMBER, 1958 (AGRAHAYANA 10—PAUSA 10, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern in metres above mean sea level in metres.	Mean pressure in millibars			Mean temperature in °C			Relative humidity %	Cloud amount (Oktas)	Wind speed (Kms. p.h.)	No. of observations												Wind direction									
			At mean sea level or height in f.p.m. of nearest isobaric level.			Departure from normal						Dry bulb			Wet bulb			Vapour pressure in mb.s.			Departure from normal			Mean amount			Mean wind speed, Kms. per hour			Wind direction			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	1	17	18	19	20	21	22	23	24	25	26	27	28	Calm	Variable			
Bay Islands Maya Bandar	0830	23	1014.8	1012.1	..	26.1	22.7	20.2	25.0	71	..	3.5	..	7.3	0	1	20	4	17	0	0	0	0	0	0	0	0	0	0	0	0		
	1730	"	1012.4	1009.7	..	25.6	22.4	20.9	25.7	75	..	4.3	..	8.3	0	0	28	0	26	0	0	0	0	0	0	0	2	3	0				
Long Island	0830	33	1014.7	1010.9	..	26.0	22.9	21.6	25.5	76	..	4.8	..	1.3	0	0	13	0	0	0	0	3	1	1	1	1	1	1	8	18	0		
	1730	"	1012.2	1008.4	..	25.1	22.6	20.6	26.4	76	..	4.3	..	0.5	0	0	4	0	0	0	0	0	1	1	1	1	1	1	1	27	0		
Port Blair	0530	79	1012.8	1003.7	..	23.0	21.3	20.3	24.1	85	..	4.4	..	7.9	0	0	18	0	10	6	1	0	0	0	0	0	0	1	13	0			
	0830	"	1014.5	1005.5	+1.4	27.3	23.1	21.0	25.0	69	-2	4.7	+0.5	9.7	0	0	29	5	17	7	0	0	0	0	0	0	0	0	2	0			
	1130	"	1012.9	1004.1	..	28.4	23.8	21.4	25.5	66	..	5.1	..	12.0	0	0	31	4	17	10	0	0	0	0	0	0	0	0	3	0			
	1730	"	1012.2	1003.2	..	25.0	22.2	20.6	24.5	77	..	4.9	..	9.9	0	0	28	3	17	8	0	1	0	0	0	0	0	0	0	3	0		
	2330	"	1013.4	1004.4	..	24.0	21.8	20.5	24.3	81	..	4.3	..	10.5	0	2	26	4	12	11	0	0	0	0	0	0	0	1	3	0			
Car Nicobar	0830	10	1013.3	1012.1	..	28.1	24.3	22.5	28.6	72	..	5.0	..	7.9	0	0	31	0	9	18	1	0	0	0	0	0	0	0	0	0	3		
	1730	"	1011.0	1009.8	..	26.7	23.5	22.0	26.9	75	..	4.7	..	6.0	0	0	27	0	13	13	1	0	0	0	0	0	0	0	4	0			
Nancowry	0830	26	1013.4	1010.5	..	27.7	25.0	23.8	29.3	78	..	5.9	..	0.7	0	0	5	0	0	4	0	1	0	0	0	0	0	0	26	0			
	1730	"	1011.0	1008.1	..	26.3	24.2	23.2	28.2	83	..	6.0	..	0.8	0	0	5	0	0	4	0	1	0	0	0	0	0	0	0	26	0		
Kondul	0830	8	1013.6	1012.6	..	27.2	24.8	23.6	29.1	82	..	5.6	..	14.6	0	5	24	0	18	11	0	0	0	0	0	0	0	0	2	0			
	1730	"	1010.9	1010.0	..	27.0	24.8	23.8	29.5	83	..	5.4	..	13.4	0	2	27	0	16	13	0	0	0	0	0	0	0	0	2	0			
Assam, (Including Manipur, Tripura)	0830	157	1019.1	1000.7	..	17.0	14.1	11.6	13.8	71	..	3.7	..	16.1	0	12	15	12	1	0	0	0	0	0	0	0	14	4	0				
	1730	"	1016.1	997.7	..	16.1	15.2	14.5	16.6	90	..	2.5	..	2.0	0	0	18	3	1	0	1	5	1	0	0	0	0	0	0	7	13	0	
Digboi	0830	"	"	"	..	15.8	14.8	14.0	15.9	90	..	5.0	..	3.0	0	0	31	7	13	11	0	0	0	0	0	0	0	0	0	0	0		
	1730	"	"	"	..	19.4	17.4	16.4	18.3	82	..	4.5	..	3.0	0	0	31	6	12	12	1	0	0	0	0	0	0	0	0	0	0		
Dibrugarh	0830	106	1019.1	1006.6	+0.5	17.4	15.5	14.2	16.0	82	-9	4.0	+1.4	1.6	0	0	16	0	1	11	0	1	0	1	0	0	0	0	2	15	0		
	1730	"	1015.5	1003.1	..	18.3	16.2	14.7	16.6	80	..	2.4	..	0.4	0	0	4	0	1	2	0	0	0	1	0	0	0	0	27	0			
	0230	111	1016.7	1003.4	..	12.4	12.1	11.9	13.8	97	..	3.4	..	0.2	0	0	1	0	1	0	0	0	0	0	0	0	0	0	30	0			
	0530	"	1017.4	1004.2	..	12.3	12.1	11.9	13.9	98	..	5.3	..	0.3	0	0	3	0	1	0	0	0	0	1	0	0	0	1	28	0			
	0830	"	1019.3	1006.2	..	16.7	15.3	14.3	15.6	86	..	4.2	..	2.6	0	0	13	1	10	5	1	0	0	0	0	0	0	0	1	13	0		
Sibsagar	0830	97	1020.0	1008.6	+1.4	16.9	16.1	15.5	17.7	92	-2	5.1	-0.8	1.2	0	0	15	6	5	9	6	0	0	1	0	0	0	0	0	16	0		
	1730	"	1015.7	1004.6	..	19.1	17.5	16.5	19.6	84	..	2.9	..	0.8	0	0	10	3	4	0	0	0	2	0	0	0	0	1	21	0			
	0530	90	1016.7	1006.0	..	13.2	13.1	13.1	14.9	100	..	5.3	..	0.6	0	0	3	0	0	1	1	1	0	0	0	0	0	0	0	28	0		
	0830	"	1019.0	1008.4	..	16.2	15.7	15.3	17.3	95	..	5.3	..	1.8	0	0	9	0	2	1	1	2	2	0	1	0	0	1	22	0			
	1130	"	1016.6	1006.2	..	21.4	18.0	15.7	18.0	70	..	4.1	..	0.5	0	0	24	5	9	4	1	1	1	1	2	7	0	1	25	0			
Golaghat	0830	"	1015.1	1004.6	..	18.1	16.6	15.6	17.7	86	..	2.6	..	1.7	0	0	6	2	2	1	0	0	0	0	0	0	0	0	0	28	0		
	1730	"	"	"	..	21.4	18.4	15.7	18.8	71	..	5.2	..	0.3	0	0	2	0	0	0	0	2	0	0	0	0	0	0	0	0	29	0	
Gohpur	0830	†	0830	"	"	15.2	14.6	14.0	16.1	93	0	0	0	19	3	5	0	8	2	1	0	0	0	0	0	0	0	0	0	
	†1730	"	"	"	..	20.6	17.4	15.3	17.4	73	0	0	0	19	1	7	1	5	2	2	0	1	0	0	0	0	0	0	0	0
Tezpur	0830	79	1019.9	1010.6	+1.0	17.5	16.3	15.7	17.7	89	+1	3.7	+1.7	3.7	0	0	27	0	13	6	5	0	2	1	0	0	0	0	0	0	4	0	
	1730	"	1015.6	1006.4	..	19.7	17.3	16.1	17.6	79	..	1.7	..	1.1	0	0	5	1	2	2	0	0	0	0	0	0	0	0	0	26	0		
Tezpur (P.B.O.)	*0230	78	1016.7	1007.4	..	14.9	14.4	13.9	16.0	95	..	2.8	..	1.4	0	0	8	0	6	2	0	0	0	0	0	0	0	0	21	0			
	0530	"	1017.3	1008.0	..	14.0	13.6	13.2	15.2	95	..	4.5	..	1.8	0	0	12	1	7	2	1	0	1	0	0	0	0	0					

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—DECEMBER, 1958 (AGRAHAYANA 10—PAUSA 10, 1880 SAKA)

†Observations for 24 days.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—DECEMBER, 1958 (AGRAHAYANA 10—PAUSA 10, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer (in millimetres above mean sea level in metres)	Mean pressure in millibars				Mean temperature in °C				Cloud amount (Oktas)				No. of observations																									
			At mean sea level or height in 8 p.m. of nearest isobaric level		At station level		Departure from normal		Dry bulb		Wet bulb		Dew point		Vapour pressure in mbs.		Relative humidity %		Departure from normal		Mean amount		Departure from normal		Mean wind speed, Kms per hour		Wind speed (Kms. p.h.)		Wind direction											
			2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	N	NE	E	SE	S	SW	W	NW	Calm	Variable	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	N	NE	E	SE	S	SW	W	NW	Calm	Variable			
Gangetic West Bengal																																								
	Dum Dum	0230	6	1015.7	1014.9	..	15.6	15.1	14.6	16.6	94	..	0.6	..	1.2	0	0	9	7	0	0	0	0	0	0	0	0	0	2	22	0									
		0530	..	1016.2	1015.4	..	14.6	14.2	13.9	16.1	96	..	1.2	..	1.3	0	0	11	6	1	0	0	0	0	0	0	0	4	20	0										
		0830	..	1018.4	1017.6	..	19.7	17.4	15.8	18.2	79	..	0.7	..	5.5	0	0	29	12	10	2	2	0	0	0	0	0	3	2	0										
		1130	..	1006.8	1006.0	..	25.6	19.6	15.8	17.7	25	..	2.2	..	5.7	0	0	29	9	6	1	2	0	1	3	7	2	0												
		1730	..	1014.8	1014.0	..	22.6	19.0	16.6	19.1	69	..	1.7	..	0.3	0	0	3	0	0	0	0	0	0	0	0	3	28	0											
Calcutta		2330	..	1016.3	1015.5	..	16.4	15.7	15.1	17.1	92	..	0.6	..	0.9	0	0	6	3	3	0	0	0	0	0	0	0	0	25	0										
		0830	6	1018.1	1017.4	+0.5	20.5	17.3	14.6	17.4	71	-6	0.5	-0.9	2.1	0	0	16	6	3	0	0	0	0	0	0	0	1	15	0										
		1130	..	1016.5	1015.8	..	25.9	19.0	14.3	18.2	49	..	1.5	..	5.8	0	0	30	7	8	2	2	0	0	0	0	3	8	1	0										
		1730	..	1014.4	1013.7	..	22.6	18.0	14.9	16.7	62	..	1.0	..	0.6	0	0	6	3	0	0	0	0	0	0	0	0	3	25	0										
		2330	..	1016.2	1015.4	..	14.9	14.6	14.2	17.0	96	..	0.3	..	0.1	0	0	1	0	0	0	0	0	0	0	0	1	30	0											
		0530	7	1018.6	1017.8	..	20.1	17.5	15.7	18.1	77	..	0.8	..	2.5	0	0	14	3	3	2	0	0	0	0	0	6	17	0											
Barrackpore		0830	..	1017.1	1016.3	..	24.9	19.3	15.4	18.0	56	..	1.3	..	8.3	0	0	28	10	1	2	0	0	0	0	0	4	11	3	0										
		1130	..	1014.8	1014.0	..	21.4	18.2	15.9	18.1	70	..	1.4	..	0.3	0	0	3	2	1	0	0	0	0	0	0	0	0	28	0										
		1730	..	1016.3	1015.5	..	16.3	15.5	14.7	16.9	92	..	0.4	..	0.2	0	0	2	1	0	0	0	0	0	0	0	1	29	0											
		2330	..	1017.6	1017.3	+0.3	21.8	19.0	17.2	19.8	75	-2	1.0	-0.9	12.0	0	0	31	14	14	0	0	0	0	0	0	0	3	0	0										
		0830	3	1014.1	1013.8	..	23.7	19.4	16.4	20.2	64	..	2.8	..	6.3	0	0	26	7	4	0	1	3	4	2	5	5	0												
		1730	..	1015.3	1014.2	..	23.9	19.4	16.4	19.8	64	..	1.1	..	10.4	0	2	25	17	5	3	1	0	0	1	4	0													
Saugor Island		0530	10	1017.7	1016.6	+0.4	25.0	20.1	17.2	19.3	62	+4	0.8	-1.0	11.3	0	1	27	18	7	1	0	1	1	0	0	0	2	1	0										
		1130	..	1016.7	1015.6	..	25.9	20.6	17.4	19.8	60	..	1.5	..	11.7	0	1	29	21	6	1	0	0	0	0	0	0	0	2	1	0									
		1730	..	1014.6	1013.5	..	25.2	20.1	17.0	19.6	61	..	1.5	..	7.0	0	1	25	12	6	3	2	0	0	0	0	0	3	5	0										
		2330	..	1015.6	1014.5	..	24.3	19.6	16.9	19.0	64	..	0.7	..	7.4	0	1	22	10	2	3	3	1	1	1	1	2	8	0											
		0830	11	1017.8	1016.6	..	21.2	18.1	15.9	18.4	73	..	0.2	..	2.3	0	0	23	10	0	7	0	0	0	0	1	5	8	0											
		1730	..	1014.4	1013.2	..	23.6	19.4	16.6	19.2	65	..	0.8	..	1.1	0	0	11	0	0	3	7	1	0	0	0	0	0	20	0										
Midnapore		0830	45	1018.7	1013.4	+1.0	21.4	17.2	14.1	16.3	64	+1	0.5	-0.8	2.8	0	0	23	10	11	0	0	1	0	0	1	1	8	0											
		1730	..	1014.3	1009.1	..	25.1	18.5	13.4	15.2	50	..	0.9	..	1.5	0	0	13	8	2	2	0	0	0	0	0	0	0	18	0										
		0830	255	1019.6	990.1	..	18.8	15.0	11.7	16.0	64	..	1.4	..	2.0	0	0	19	1	0	0	0	0	0	0	0	0	3	12	0										
		1730	..	1015.2	986.1	..	22.2	16.6	12.3	14.2	54	..	1.1	..	0.2	0	0	2	0	1	0	0	0	0	0	0	0	0	1	29	0									
		0830	32	1018.7	1014.9	+0.8	19.7	17.3	14.1	17.5	71	+3	1.0	-0.4	0.6	0	0	3	3	0	0	0	0	0	0	0	0	0	28	0										
		1730	..	1015.4	1011.6	..	23.0	18.5	15.0	17.8	62	..	0.8	..	0.2	0	0	1	1	0	0	0	0	0	0	0	0	0	30	0										
Krishnagar		0830	15	1018.8	1017.1	+1.0	19.6	16.8	15.0	16.9	74	0	0.7	-0.6	1.5	0	0	15	9	0	0	0	0	0	0	0	0	4	2	16	0									
		1730	..	1015.0	1013.3	..	22.3	17.9	15.0	16.9	62	..	0.7	..	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	0										
		0230	126	1016.3	1001.3	..	16.1	15.5	14.9	17.2	93	..	1.0	..	0.4	0	0																							

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—DECEMBER, 1958 (AGRAHAYANA 10—PAUSA 10, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Cloud amount (Octas)			Wind speed (kms. p.h.)	No. of observations																
			At mean sea level or height in g.p.m. of nearest standard isobaric level			At station level			Departure from normal				Vapour pressure in mbs.			Relative humidity %			Departure from normal			Mean amount			Departure from normal				
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
Orissa—(Contd.)																													
Gopalpur	0530	17	1016.2	1014.2	..	18.1	17.1	16.2	18.5	88	..	0.7	..	6.3	0	0	31	14	0	0	0	0	0	0	17	0	0	0	
	0830	"	1018.4	1016.4	+1.1	21.6	18.7	16.9	19.5	74	+2	1.3	-0.1	9.3	0	0	18	3	0	0	0	0	0	0	15	13	0	0	
	1130	"	1017.1	1015.1	..	27.7	20.7	16.5	18.9	52	..	1.9	..	5.2	0	0	25	10	7	3	4	0	0	0	0	1	6	0	0
	1730	"	1014.8	1013.1	..	25.0	20.0	16.9	19.3	61	..	2.1	..	6.3	0	0	31	1	4	17	8	1	0	0	0	1	9	14	0
	2330	"	1016.4	1014.4	..	20.3	18.4	17.3	19.6	84	..	0.8	..	2.5	0	0	17	7	0	0	0	0	0	0	1	9	14	0	
Koraput	0830	913	1551.3	916.0	..	18.2	15.0	12.6	14.8	71	..	0.5	..	..	0	0	31	0	1	4	4	14	7	0	1	0	0	0
	1730	"	1533.0	913.4	..	20.9	14.3	10.4	12.4	53	..	1.4	..	..	0	0	31	8	0	0	1	0	0	0	22	0	0	0
Titilagarh	0830	211	1018.5	994.1	..	18.5	16.0	14.1	16.2	75	..	1.3	..	1.2	0	0	12	2	1	0	4	4	0	0	1	19	0	0	
	1730	"	1013.4	990.2	..	25.6	19.0	14.9	17.2	53	..	1.2	..	1.8	0	0	18	8	10	0	0	0	0	0	0	0	13	0	
Bolangir	0830	190	1018.7	996.3	..	18.4	15.9	13.7	16.1	75	..	1.8	..	3.3	0	0	31	10	3	1	2	5	5	0	5	0	0	0	
	1730	"	1014.9	993.2	..	25.2	18.1	13.0	14.8	50	..	2.1	..	3.9	0	0	31	16	9	0	0	0	0	0	6	0	0	0	
Angul	0830	139	1019.0	1002.7	+1.3	18.8	16.2	14.1	16.5	75	+3	0.8	-0.8	2.6	0	0	27	0	0	0	0	1	9	11	6	4	0		
	1730	"	1014.5	998.7	..	25.2	18.0	12.8	14.8	46	..	2.7	..	2.4	0	0	24	7	3	3	1	0	4	2	4	7	0		
Keonjhar	0830	463	1015.8	963.0	..	18.5	15.2	12.9	14.8	69	..	1.2	..	2.3	0	0	20	5	2	0	1	0	0	3	9	11	0		
	1730	"	1011.7	959.7	..	22.3	16.6	12.5	14.5	54	..	3.3	..	3.4	0	0	27	2	3	2	0	1	6	8	5	4	0		
Sambalpur	0830	148	1018.9	1001.7	+0.9	19.4	16.1	13.6	15.6	69	-4	0.8	-0.6	1.3	0	0	13	2	7	2	1	0	0	0	1	18	0		
	1730	"	1014.7	997.7	..	24.0	17.8	13.2	15.5	51	..	1.2	..	0.5	0	0	5	3	0	0	0	0	0	0	2	26	0		
Jharsuguda	0230	230	1016.4	989.3	..	14.3	13.4	12.4	14.8	88	..	0.5	..	1.0	0	0	6	0	6	0	0	0	0	0	0	0	25	0	
	0530	"	1017.1	989.9	..	13.3	12.6	11.9	13.8	93	..	0.8	..	2.5	0	0	18	11	6	0	0	0	0	0	1	13	0		
	0830	"	1019.0	992.2	..	18.0	14.8	12.3	15.5	69	..	1.1	..	4.7	0	0	23	12	11	0	0	0	0	0	0	0	8	0	
	1130	"	1017.1	990.9	..	24.7	17.2	11.3	13.5	44	..	1.5	..	4.8	0	0	26	4	9	0	1	4	1	1	6	5	0		
	1730	"	1014.5	988.3	..	23.1	16.7	11.7	13.9	49	..	1.3	..	2.3	0	0	14	1	2	0	0	4	2	3	2	17	0		
Chota Nagpur Jamshedpur	2330	"	1016.8	989.9	..	16.6	14.3	12.4	14.7	77	..	0.5	..	1.4	0	0	9	1	5	1	0	0	0	1	1	22	0		
	0830	129	1019.1	1003.9	+1.0	17.4	15.1	13.3	15.5	77	+2	1.1	-0.5	2.0	0	0	19	0	0	0	1	0	0	12	6	12	0		
	1730	"	1014.5	999.7	..	23.4	18.3	14.7	17.2	58	..	1.1	..	1.0	0	0	8	0	2	1	1	0	0	0	1	3	23	0	
	0530	145	1016.9	999.8	..	14.9	13.9	12.9	14.9	88	..	2.3	..	1.7	0	0	13	0	1	0	1	0	0	2	6	3	18	0	
	0830	"	1018.9	1002.0	..	19.4	15.9	13.2	15.1	68	..	1.9	..	3.3	0	0	24	3	1	0	0	0	0	1	12	7	7	0	
Jamshedpur (P.B.O.)	1130	"	1017.2	1000.5	..	24.8	17.9	12.5	14.7	47	..	2.5	..	4.6	0	0	30	2	2	4	2	1	1	0	0	0	18	1	
	1730	"	1014.6	997.9	..	23.7	17.6	13.1	15.2	51	..	2.2	..	1.7	0	0	13	0	8	2	1	1	0	0	0	0	15	6	
	2330	"	1016.7	999.7	..	17.1	15.3	13.8	16.2	81	..	2.1	..	2.0	0	0	16	3	1	0	0	0	0	0	1	5	6	15	0
	0830	226	1019.0	992.7	+1.1	18.3	14.9	12.3	14.4	68	-8	1.7	+0.2	0.5	0	0	5	0	0	0	0	0	0	0	5	0	0	26	0
	1730	"	1014.5	988.6	..	22.8	16.8	12.2	14.7	51	..	2.5	..	0.2	0	0	2	0	0	0	0	0	0	0	1	0	1	29	0
Ranchi	0830	655	1018.7	944.1	+1.2	18.2	14.3	11.5	13.5	66	+8	0.1	+1.3	1.5	0	0	12	7	0	0	0	0	2	2	0	1	19	0	
	1730	"	1014.6	940.8	..	19.8	14.9	10.8	13.2	57	..	0.7	..	0.2	0	0	1	1	0	0	0	0	0	0	0	0	30	0	
Ranchi (C.W.O.)	0530	652	1017.4	942.3	..	12.3	10.5	8.7	11.2	80	..	1.2	..	1.2	0	0	8	5	0	0	0	0	0	0	0	3	23	0	
	0830	"	1018.3	944.3	..	17.6	13.3	9.9	12.4	61	..	1.6	..	4.1	0	0	22	9	6	2	0	1	1	3	0	9	0	0	
	1130	"	1016.5	943.7	..	21.8	14.2	7.7	10.9	41	..	3.1	..	5.8	0	0	23	6	2	4	0	1	1	4	5	8	0		
	1730	"	1013.9	940.9	..	20.0	13.4	7.5	10.5	45	..	2.6	..	4.9	0	0	19	9	4	0	0	0	0	2	4	5	0		
	0830	221	1019.5	993.4	+0.6	17.5	14.2	11.9	13.5	68	-11	1.6	+0.6	0.5	0	0	5	0	0	0	2	0	1	0	2	0	26	0	
Daltonganj	1730	"	1015.3</td																										

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—DECEMBER, 1958 (AGRAHAYANA 10,—PAUSA 10, 1880 SAKA)

Division and station	Hour of observation I. S. T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Cloud amount (Oktas)			Wind speed (Kms. p.h.)			No. of observations															
															Wind direction															
			At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Mean amount	Departure from normal	Mean wind speed, Kms. per hour	62 or more	20 to 61	1 to 19	N	NE	E	SE	S	SW	W	NW	Calm	Variable			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28			
Bihar—(Contd.)																														
Dehri . . .	0830	107	1019.1	1006.4	..	17.1	14.9	13.3	15.2	77	..	1.5	..	3.1	0	0	30	0	0	1	5	5	12	6	1	1	0			
	1730	"	1014.5	1002.2	..	22.7	16.9	12.1	14.5	53	..	1.5	..	1.9	0	0	20	2	2	0	0	1	1	10	4	11	0			
Gaya	0230	116	1017.3	1003.4	..	13.2	12.3	11.4	14.2	89	..	0.6	..	3.5	0	0	20	1	1	0	5	7	4	1	1	11	0			
	0530	"	1017.6	1003.8	..	11.9	11.3	10.4	13.1	92	..	0.9	..	4.8	0	1	25	1	0	0	4	12	6	1	2	5	0			
	0830	"	1019.7	1006.0	+1.8	16.6	14.4	12.5	14.6	77	+10	1.7	+0.7	5.7	0	1	24	0	0	0	1	8	11	3	2	6	0			
	1130	"	1018.4	1004.9	..	23.2	17.4	13.0	15.2	53	..	1.6	..	10.8	0	5	24	1	2	3	2	0	4	11	6	2	0			
	1730	"	1015.7	1002.2	..	21.6	16.3	12.4	14.3	56	..	1.9	..	6.5	0	1	25	7	6	0	0	0	0	0	13	5	0			
	2330	"	1017.5	1003.8	..	14.7	13.0	11.4	13.7	82	..	0.5	..	3.4	0	0	18	1	0	0	3	5	3	3	3	13	0			
Jamui . . .	0830	82	1018.6	1009.5	..	16.2	14.6	13.2	15.2	84	..	1.5	..	2.3	0	0	18	0	0	5	2	0	0	4	7	13	0			
	1730	"	1015.0	1005.3	..	21.8	17.5	14.0	16.3	62	..	1.2	..	3.2	0	0	23	0	0	1	0	0	0	0	3	19	8	0		
Dumka . . .	0830	149	1019.1	1001.8	+1.2	19.4	15.7	12.8	15.1	66	0	1.1	+0.2	1.9	0	0	29	6	0	3	0	0	0	0	10	10	2	0		
	1730	"	1014.6	997.6	..	22.3	16.7	12.4	14.6	54	..	2.3	..	1.9	0	0	28	6	2	2	0	0	0	0	4	14	3	0		
Bhagalpur . . .	0530	49	1017.9	1012.2	..	14.7	13.9	13.1	15.2	91	..	0.7	..	3.8	0	0	19	0	0	0	0	0	0	5	10	3	1	12	0	
	0830	"	1019.3	1013.5	..	16.8	15.1	13.8	15.9	84	..	1.4	..	3.7	0	0	20	0	1	0	0	0	0	0	8	7	4	11	0	
	1130	"	1017.9	1012.2	..	21.8	17.4	14.5	16.3	65	..	1.7	..	7.0	0	0	29	3	3	0	1	0	0	0	3	11	8	2	0	
	1730	"	1015.4	1009.7	..	20.9	17.2	14.7	16.9	68	..	1.7	..	6.1	0	0	28	4	0	0	0	0	0	0	1	15	8	3	0	
	*2330	"	1017.1	1011.4	..	17.1	15.4	14.1	13.4	83	..	0.2	..	3.0	0	0	20	0	0	0	0	0	0	0	13	4	0	11	0	
Sabour . . .	0830	37	1019.1	1014.6	+1.1	17.0	15.8	14.8	17.2	88	+6	2.2	+0.9	3.2	0	0	23	0	0	1	1	0	0	15	5	1	8	0		
	1730	"	1015.0	1010.7	..	20.3	18.0	16.3	19.0	79	..	2.5	..	2.1	0	0	16	0	0	0	0	0	0	0	1	6	9	15	0	
Uttar Pradesh (East)																														
Gonda . . .	0830	110	1019.2	1006.1	..	14.2	13.3	12.5	14.4	90	+8	1.8	+0.3	1.0	0	0	9	0	0	0	1	0	0	0	6	2	22	0		
	1730	"	1015.9	1003.1	..	19.2	15.9	13.4	15.0	70	..	1.6	..	0.3	0	0	3	0	0	0	0	0	0	0	1	2	28	0		
Nautanwa . . .	0830	99	1019.5	1007.6	..	14.3	13.8	13.6	15.4	95	..	2.0	..	1.2	0	0	8	0	0	2	3	1	1	1	0	23	0			
	1730	"	1015.6	1004.0	..	19.7	16.9	14.3	16.7	73	..	2.7	..	1.0	0	0	6	0	0	0	0	1	2	2	1	25	0			
Gorakhpur . . .	0830	77	1018.4	1009.4	+0.7	16.4	14.5	12.8	14.6	80	+2	1.5	+0.6	1.8	0	0	17	0	0	0	0	1	1	0	15	0	14	0		
	1730	"	1015.4	1006.3	..	20.2	16.9	13.6	16.3	71	..	0.9	..	0.7	0	3	7	0	0	0	0	0	0	0	1	6	0	24	0	
Gorakhpur (P.B.O) . . .	0230	78	1016.3	1006.9	..	14.6	13.6	12.6	14.4	89	..	1.3	..	2.8	0	0	14	1	0	0	1	0	0	0	1	8	3	17	0	
	0530	"	1016.3	1006.9	..	13.6	12.8	12.1	13.8	91	..	1.3	..	2.4	0	0	14	1	0	0	0	0	0	0	3	7	3	17	0	
	1130	"	1017.9	1008.8	..	21.6	16.8	13.4	15.5	61	..	2.1	..	5.5	0	0	29	2	2	0	0	5	5	10	5	0	2	0		
	2330	"	1016.9	1007.6	..	15.3	14.1	13.0	15.0	87	..	1.3	..	2.3	0	0	14	2	0	0	0	0	0	0	2	7	3	17	0	
Azamgarh . . .	0830	78	1018.7	1009.5	..	14.4	13.9	13.6	15.4	92	..	0.8	..	0	0	31	0	0	0	2	1	0	0	0	0	0	28	0	0	0
	1730	"	1015.4	1006.3	..	20.1	17.1	14.8	16.8	75	..	0.8	..	0	0	0	0	0	0	0	0	0	0	0	0	0	31	0		
Ballia . . .	0830	64	1018.8	1011.3	..	14.3	13.1	12.0	14.4	85	..	1.1	..	1.9	0	0	16	0	1	1	0	1	6	4	3	15	0			
	1730	"	1015.0	1007.7	..	23.6	17.0	12.4	13.6	49	..	0.5	..	3.2	0	0	25	2	2	1	1	0	0	0	2	3	14	6	0	
Varanasi (Banaras) . . .	0830	76	1018.9	1009.8	+0.5	15.6	13.8	12.1	14.2	81	+5	1.5	+0.4	4.0	0	0	15	0	0	0	1	2	7	4	1	16	0			
	1730	"	1015.5	1006.6	..	21.1	16.5	12.9	15.1	60	0	1.8	..	2.9	0	0	17	2	1	1	0	0	0	1	8	4	14	0		
Varanasi (Banaras) (Babatpur Aerodrome) . . .	0530	85	1018.4	1008.1	..	11.3	10.9	10.5	12.8	94	..	1.2	..	3.5	0	0	21	1	1	2	0	1	11	3	2	10	0			
	0830	"	1020.3	1010.0	..	14.9	13.6	12.5	14.5	83	..	2.1	..	6.3	0	0	25	0	2	1	2	1	13	6	0	6	0			
	1130	"	1019.4	1009.5	..	21.7	16.8	13.1	14.9	58	..	1.8	..	8.9	0	1	30	1	3	1	4	1	6	9	5	0	1			
	1730	"	1016.7	1006.9	..	20.9	16.6	13.4	15.4	62	..	1.7	..	3.9	0	0	26	6	3	2	0	0	1	5	9	5	0			
	2330	"	1018.6	1008.3	..	13.4	12.5	11.7	13.8	87	..	0.7	..	2.8	0	0	15	3	0	2	0	3	1	3	3	16	0			
Allahabad (Bamrauli) . . .	0230	98	1017.1	1005.4	..	12.7	11.6	10.6	12.8	88	..	0.5	..	2.3	0	0	15	1	0	3	0	0	0	0	7	3	1	16	0	
	0530	"	1017.4	1005.6	..	11.5	10.8	10.1	12.8	92	..	0.5	..	1.8	0	0	14	0	0	1	0	1	6	5	1	17	0			
	0830	"	1019.4	1007.7	+0.8	15.3	13.2	11.4	13.0	78	+1	1.9	+0.4	3.3	0	0	20	0	0	3	1	1	6	9	0	1	0			
	1130	"	1018.5	1007.2	..	22.4	16.4	11.9	13.4	51	..	2.3	..	6.8	0	0	30	3	1	4	4	2	2	9	5	1	0			
	1730	"	1015.9	1004.5	..	21.1	16.4	12.9	14.8	60	..	1.8	..	2.5	0	0	20	4	5	3	0	0	0	3	5</					

* = Observations for 28 days.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—DECEMBER, 1958 (AGRAHAYANA 10, —PAUSA 10, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Octas)		Wind speed (Kms.p.h.)	No. of observations														
			At mean sea level	At station level	Departure from normal	Dry bulb	Wet bulb	Dew point				Mean amount	Departure from normal		N	NE	E	SE	S	SW	W	NW	Calm	Variable					
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
Uttar Pradesh (East)																													
—Contd.																													
Lucknow (Amausi (Aerodrome)—Contd.	1130	128	1018.4	1003.5	..	20.9	15.4	10.9	13.2	55	..	2.1	..	8.5	0	1	30	3	0	0	6	3	5	4	10	0	0		
	1730	"	1016.0	1001.1	..	19.1	15.6	12.9	14.5	68	..	1.9	..	4.0	0	0	0	24	4	3	2	0	0	1	6	8	7	0	
	2330	"	1017.3	1002.1	..	12.5	11.8	11.2	12.8	92	..	0.8	..	3.0	0	0	0	15	0	0	0	4	0	0	1	7	3	16	0
Hardoi . . .	0830	142	1018.9	1001.9	..	12.5	11.8	11.1	12.8	91	..	2.2	..	1.9	0	0	0	13	1	0	2	2	0	0	8	0	18	0	
	1730	"	1015.7	999.2	..	30.2	16.3	13.7	15.2	60	..	2.0	..	1.5	0	0	0	8	1	0	2	1	0	0	2	2	23	0	
Lakhimpur Kheri .	0830	147	1018.1	1000.6	..	13.2	12.5	11.6	13.3	90	..	1.8	..	0.7	0	0	0	7	0	0	0	1	0	0	6	0	24	0	
	1730	"	1015.3	998.3	..	19.1	16.0	13.6	15.5	72	..	1.8	..	0.4	0	0	0	4	0	0	0	0	0	0	3	1	27	0	
Bahraich . . .	0830	124	1019.1	1004.4	+1.5	15.2	13.5	12.1	14.0	82	+2	2.8	+1.8	2.7	0	0	0	23	3	0	0	6	1	1	2	9	1	8	0
	1730	"	1016.0	1001.4	..	19.6	16.0	13.6	15.1	68	..	2.7	..	1.9	0	0	0	17	0	0	0	2	2	1	0	10	2	14	0
Uttar Pradesh (West)																													
Orai . . .	0830	141	1020.3	1003.7	..	17.8	14.8	12.5	14.3	71	..	1.1	..	3.0	0	0	0	20	0	0	0	5	0	0	0	0	15	11	0
	1730	"	1015.9	999.6	..	22.6	17.7	14.3	15.6	59	..	0.9	..	2.2	0	0	0	23	6	2	0	1	0	1	1	12	8	0	
Jhansi . . .	0830	251	1019.3	989.8	+0.4	15.1	12.9	10.9	13.0	77	+17	1.6	+0.5	0.9	0	0	0	8	1	0	0	0	0	1	1	5	23	0	
	1730	"	1015.6	987.0	..	23.9	17.7	13.5	15.4	52	..	1.7	..	2.1	0	0	0	21	4	1	0	4	0	0	2	10	10	0	
Agra . . .	0830	169	1019.7	999.5	+0.9	14.4	12.2	10.4	12.5	77	+15	1.4	..	0.7	0	0	0	6	0	0	0	1	1	1	1	2	25	0	
	1730	"	1015.9	996.4	..	22.3	16.1	10.8	13.4	50	..	1.6	..	1.4	0	0	0	13	0	2	0	1	0	0	2	8	18	0	
Agra (Aerodrome) . . .	0530	169	1017.7	997.4	..	10.5	9.9	9.5	11.8	92	..	1.1	0	0	0	7	0	0	0	2	2	0	0	1	2	24	0
	0830	"	1019.2	999.2	..	13.6	12.1	11.0	12.9	85	..	1.7	..	..	0	1	9	1	0	4	1	0	1	2	1	21	0	
	1130	"	1018.8	999.3	..	21.5	16.1	12.6	14.4	58	..	2.2	..	..	0	4	24	2	1	2	5	1	5	7	3	0		
	1730	"	1015.9	996.3	..	20.3	16.0	13.0	14.6	64	..	2.5	..	..	0	1	23	5	3	3	0	0	0	0	3	10	7	0
	2330	"	1018.0	997.8	..	13.2	11.9	10.9	13.3	87	..	1.4	..	..	0	0	12	0	4	3	1	0	1	1	2	19	0	
Mainpuri . . .	0830	157	1018.6	999.8	+0.2	13.3	11.7	10.4	12.4	80	+9	1.2	-0.2	1.0	0	0	0	9	0	0	0	1	1	0	0	7	0	22	0
	1730	"	1016.2	997.8	..	20.7	16.3	12.7	14.7	61	..	1.0	..	0.8	0	0	0	9	0	0	0	1	0	0	0	6	2	22	0
Aligarh . . .	0830	187	1019.1	996.6	..	12.4	11.0	9.6	11.9	88	+21	1.9	+0.5	1.2	0	0	0	12	1	0	4	0	2	0	5	0	19	0	
	1730	"	1016.2	994.5	..	20.4	16.1	12.6	15.3	61	..	2.5	..	1.4	0	0	0	14	1	0	5	0	1	0	6	1	17	0	
Bareilly . . .	0830	173	1018.8	998.1	+0.6	13.7	12.4	11.3	12.9	85	+4	3.0	+1.6	1.9	0	0	0	13	1	0	3	0	0	0	1	5	3	18	0
	1730	"	1015.4	995.3	..	18.8	15.0	11.7	13.9	65	..	1.6	..	0.6	0	0	0	5	0	0	0	0	0	0	0	4	1	26	0
Bareilly (P.B.O.) . . .	0230	172	1016.7	996.3	..	13.1	12.0	11.1	12.8	88	..	1.2	..	2.6	0	0	0	12	0	2	4	0	0	0	0	3	3	19	0
	0530	"	1016.8	996.3	..	12.4	11.5	10.9	12.8	91	..	1.4	..	2.6	0	0	0	13	0	0	6	0	0	0	4	3	18	0	
	1130	"	1018.5	998.4	..	18.6	15.9	14.3	15.4	76	..	2.4	..	6.4	0	0	0	27	0	1	6	1	0	0	0	6	13	4	0
	2330	"	1017.3	996.6	..	14.4	13.3	12.0	14.4	85	..	0.6	..	2.2	0	0	0	13	1	0	3	1	0	0	0	4	4	18	0
Meerut . . .	0830	222	1019.6	993.4	+1.4	14.3	12.0	9.8	12.5	76	+1	1.0	-0.4	2.7	0	0	0	16	0	1	11	0	0	0	3	1	15	0	
Najibabad . . .	0830	270	1018.8	986.7	..	11.3	10.7	9.9	12.3	92	..	3.4	..	2.1	0	0	0	22	0	8	1	1	0	1	0	11	9	0	
	1730	"	1016.6	985.4	..	18.9	15.2	12.2	14.4	66	..	1.5	..	0.8	0	0	0	8	0	0	0	3	0	0	0	5	23	0	
Roorkee . . .	0830	274	1019.7	987.2	+1.4	12.3	11.3	10.2	12.3	84	+2	2.8	+1.0	0.2	0	0	0	2	0	0	0	1	0	0	0	1	29	0	
	1730	"	1016.3	984.5	..	18.2	14.9	12.3	14.4	70	..	3.9	..	0.3	0	0	0	3	0	0	0	0	0	0	0	0	3	28	0
Dehra Dun . . .	0530	682	1018.1	938.7	..	10.0	8.9	7.9	10.6	89	..	1.8	..	3.4	0	0	0	20	11	7	0	0	0	0	0	1	1	11	0
	0830	"	1019.0	939.9	+0.6	11.3	9.9	8.4	11.1	83	+8	2.3	-0.2	1.1	0	0	0	11	4	2	1	0	0	0	0	3	1	20	0
	1130	"	1017.7	940.6	..	18.6	13.4	9.1	11.7	..	..	2.7	..	5.5	0	0	0	31	1	0	0	9	10	7	2	1	0	1
	1730	"	1016.0	938.6	..	16.5	13.7	11.6	13.9																				

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—DECEMBER, 1958 (AGRAHAYANA 10,—PAUSA 10, 1880 SAKA)

635

Division and station	Hour of observation I. S. T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars	Mean temperature in °C				Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Octas)		Wind speed (Kms. p.h.)		No. of observations													
				At mean sea level in gm./m. or height in gm./m. nearest standard isobaric level	At station level	Dry bulb	Wet bulb	Dew point			Mean amount	Departure from normal	Mean wind speed, kms. per hours	62 or more	20 to 61	1 to 19	N	NE	E	SE	S	SW	W	NW	Calm	27	28	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
panjab (India) Includ- ing Delhi)—Contd. Ambala (P.B.O.)	0230	278	1017.4	984.5	..	12.4	10.9	9.6	11.9	84	..	2.2	..	5.0	0	0	20	1	3	1	3	1	0	4	7	11	0	
	0530	"	1017.0	984.1	..	11.4	10.1	8.8	11.2	86	..	2.2	..	4.7	0	1	18	1	1	1	5	1	2	4	4	12	0	
	1130		1018.6	986.2	..	17.5	14.0	11.5	13.0	70	..	3.9	..	8.2	0	0	30	1	0	0	11	1	3	7	7	1	0	
	2330		1017.5	984.8	..	13.7	11.6	9.9	12.4	79	..	2.0	..	6.5	0	1	22	2	4	1	5	1	0	2	8	8	0	
Ambala (Aerodrome)	0530	273	1017.3	984.5	..	9.6	9.2	8.7	11.4	95	..	3.1	..	..	0	2	8	0	0	4	0	0	0	4	2	21	0
	0830	"	1018.7	985.9	..	10.5	10.0	9.3	11.8	92	..	4.3	..	..	0	2	12	0	0	6	1	0	0	4	3	17	0
	1130	"	1018.7	986.7	..	17.3	14.0	11.2	13.2	68	..	3.8	0	5	19	0	0	0	8	3	0	0	7	6	7	0
	1730	"	1015.9	984.0	..	18.3	14.4	10.8	13.3	64	..	3.5	..	..	0	3	17	0	0	4	1	0	5	10	0	11	0
	2330	"	1017.8	985.2	..	11.6	10.7	10.0	12.3	90	..	2.3	..	..	0	3	9	0	0	2	0	1	0	7	2	19	0
Chandigarh	0830	347	1018.1	977.0	..	11.2	9.9	8.4	10.9	82	..	1.7	0	0	14	0	0	1	0	2	0	0	3	5	19	0
	1730	"	1015.7	975.7	..	17.9	14.0	10.4	12.7	63	..	2.1	..	..	0	0	9	0	0	1	0	1	0	5	22	0	
Ludhiana	0830	247	1019.1	989.7	+0.6	12.6	10.9	9.5	11.8	82	+7	1.6	-0.5	1.5	0	0	16	0	0	0	6	0	0	1	9	15	0	
	1730	"	1016.6	987.7	..	17.7	14.5	12.3	14.3	71	..	2.4	..	1.1	0	0	9	0	0	1	0	1	0	5	22	0		
Ferozepur	0830	200	1019.0	995.2	..	10.4	10.0	9.3	11.8	95	..	1.7	..	0.3	0	0	3	0	1	0	2	0	0	0	0	28	0	
	1730	"	1015.9	993.6	..	18.4	15.8	13.2	16.0	74	..	2.6	..	0.7	0	0	6	1	0	0	2	0	0	0	3	25	0	
Amritsar	0530	234	1018.3	989.8	..	8.4	8.2	7.8	10.5	96	..	2.5	..	2.7	0	0	11	0	1	3	2	0	0	3	2	20	0	
	0830	"	1019.3	991.1	..	9.0	8.5	8.0	10.5	93	..	3.1	..	3.4	0	1	10	3	0	2	1	1	0	1	3	20	0	
	1130	"	1019.4	991.8	..	16.4	13.3	10.6	12.9	70	..	4.1	..	5.6	0	2	12	1	0	3	3	1	0	2	4	17	0	
	1730	"	1016.7	989.3	..	17.2	14.1	11.3	13.7	69	..	4.6	..	4.5	0	2	11	1	0	0	2	0	1	5	4	18	0	
Pathankot	0830	344	1019.1	978.4	..	11.5	10.4	9.4	11.7	87	..	4.4	..	1.4	0	0	9	0	3	3	2	1	0	0	0	22	0	
Pathankot (Aerodrome)	0830	312	1019.1	982.1	..	11.5	10.7	10.0	12.3	91	..	5.9	..	1.9	0	0	13	0	2	1	0	1	1	8	0	18	0	
	1130	"	1018.9	982.7	..	17.6	14.0	11.0	13.1	67	..	4.5	..	3.8	0	0	24	2	4	3	1	4	6	4	0	7	0	
	1730	"	1016.6	980.3	..	16.5	13.8	11.4	13.5	75	..	5.1	..	3.6	0	0	25	1	1	3	1	0	5	12	2	6	0	
Himachal Pradesh Bilaspur	0830	493	1020.6	962.1	..	8.3	8.1	8.0	10.6	98	..	7.5	..	1.4	0	0	12	3	5	1	1	1	1	0	0	19	0	
	1730	"	1015.6	959.3	..	18.6	14.3	10.9	13.0	61	..	5.0	..	4.6	0	0	31	4	2	0	3	8	9	2	3	0	0	
Mandi	0830	761	1021.1	931.9	..	6.8	6.5	6.2	9.4	97	..	4.8	..	1.1	0	0	11	0	0	0	0	3	3	3	2	20	0	
	1730	"	1015.4	929.1	..	15.0	11.7	8.6	11.3	67	..	3.8	..	1.7	0	0	12	0	0	0	6	3	0	2	1	19	0	
Jammu and Kashmir Srinagar	0530	1587	1552.3	846.5	..	1.4	0.9	0.3	6.1	92	..	5.8	..	3.0	0	0	22	0	0	1	7	1	3	4	6	9	0	
	0830	"	1563.1	847.7	+1.2	1.5	0.8	-0.1	6.0	90	0	6.3	+1.4	2.4	0	0	16	0	1	1	4	0	0	4	6	15	0	
	1130	"	1565.6	848.0	..	5.4	3.4	1.1	6.7	74	..	6.4	..	2.8	0	0	24	2	0	0	5	2	2	8	5	7	0	
	1730	"	1543.4	845.6	..	6.0	3.8	1.1	6.7	71	..	6.1	..	1.9	0	0	12	2	0	0	2	2	2	4	19	0		
	2330	"	1555.2	846.9	..	2.8	2.0	1.1	6.5	89	..	5.9	..	1.5	0	0	12	0	0	1	2	0	2	2	5	19	0	
Gulmarg	0830	2655	Closed during winter months												3.3	0	0	18	11	5	1	0	0	1	0	0	12	0
Leh	*0530	3514	3127.7	667.1	..	-6.8	-9.5	-14.2	1.3	46	..	4.8	..	0.8	0	0	4	0	1	0	0	2	1	0	0	27	0	
	0830	"	3130.7	666.9	+0.4	-4.9	-7.5	-14.3	1.6	42	-16	5.3	+0.7	0.8	0	0	4	0	1	0	0	2	1	0	0	8	0	
Skardu (R)	0830	2288													4.1	0	0	23	0	0	1	2	7	10	3	0	8	0
Gilgit (R)	0830	1491																										
Misgar (R)	0830	3106																										
Jammu	0830	..	..	..	..	12.4	11.1	9.8	12.3	87	+25	4.6	+2.0	..	0	0	31	3	25	0	0	0	0	3	0	0	
Rajasthan (West) Sri Ganganagar	0530	177	1017.5	996.2	..	10.0	9.2	8.4	10.9	90	..	3.0	..	1.2	0	0	8	1	3	1	2	1	0	0	0	23	0	
	0830	"	1018.8	997.5	..	10.3	9.4	8.6	11.1	89	+24	3.7	+1.9	0.9	0	0	6	0	2	1	2	1	0	0	0	25	0	
	1130	"	1018.9	998.3	..	18.3	14.1	10.4																				

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—DECEMBER, 1958 (AGRAHAYANA 10,—PAUSA 10, 1880 SAKA)

Division and station	Hour of observation I. S. T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Cloud amount (Octas)			Wind speed (Kms. p.h.)			No. of observations															
			At mean sea level or height in g.p.m. of nearest standard isobaric level			At station level			Departure from normal			Departure from normal			Mean wind speed knts. per hour			Wind direction												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan (West)—Contd.																														
Jaisalmer . . .	0830	242	1017.7	989.6	..	14.1	11.3	7.9	11.0	69	..	2.2	..	8.5	0	3	20	6	6	0	1	5	3	1	1	8	0	0		
	1730	“	1014.8	987.2	..	22.7	15.0	7.2	10.8	39	..	2.9	..	15.8	0	8	23	12	6	0	1	4	3	0	5	0	0	0		
Phalodi . . .	0830	234	1018.7	990.9	..	13.0	11.6	10.3	12.4	84	..	3.0	..	7.1	0	3	16	2	0	2	2	10	1	0	2	12	0	0		
	1730	“	1016.1	989.5	..	23.2	17.9	13.8	16.0	58	..	2.9	..	11.5	0	4	25	12	4	0	0	1	3	3	6	2	0	0		
Nagaour . . .	0830	298	1019.3	984.3	..	14.9	12.5	10.3	12.5	76	..	2.2	..	5.3	0	0	29	6	7	4	3	2	2	3	2	0	0	0		
	1730	“	1015.2	981.5	..	22.3	16.0	10.5	12.8	50	..	2.8	..	8.7	0	0	29	5	6	7	1	3	1	3	3	2	0	0		
Jodhpur . . .	0230	224	1017.1	990.7	..	15.7	12.2	8.6	11.1	64	..	0.9	..	9.2	0	0	29	6	19	0	0	1	0	2	1	2	0	0		
	0530	“	1017.1	990.6	..	13.9	11.1	8.3	10.8	70	..	1.3	..	9.1	0	1	29	7	20	1	0	0	0	0	2	1	0	0		
Barmer . . .	0830	“	1018.8	992.3	+2.1	14.9	11.9	8.9	11.5	69	+19	2.8	+1.1	8.3	0	1	25	5	19	0	1	0	0	0	1	5	0	0		
	1130	“	1018.7	992.8	..	21.5	15.0	9.4	11.9	47	..	2.6	..	6.9	0	0	21	0	11	4	1	1	2	1	10	0	0			
Barmer . . .	1730	“	1015.2	989.6	..	24.6	16.3	9.2	11.6	38	..	2.5	..	6.4	0	0	26	6	8	0	1	0	3	5	2	5	0	0		
	2330	“	1017.5	991.3	..	17.3	12.6	8.1	10.7	55	..	1.3	..	8.5	0	0	27	7	17	2	0	0	0	0	1	4	0	0		
Barmer . . .	0530	194	1016.5	993.5	..	14.6	11.9	9.3	10.5	72	..	1.2	..	5.9	0	0	24	0	0	0	0	0	1	23	7	0	0			
	0830	“	1018.3	995.4	+1.1	15.1	12.1	9.3	11.5	70	+17	2.3	+0.7	6.6	0	0	28	5	1	0	2	1	0	1	18	3	0	0		
Barmer . . .	1130	“	1018.2	995.8	..	22.1	15.6	10.1	12.3	48	..	2.2	..	7.4	0	0	30	7	12	3	3	2	1	1	1	1	0	0		
	1730	“	1014.6	992.5	..	24.7	16.7	10.0	12.4	41	..	2.7	..	6.4	0	0	27	6	6	2	0	2	1	4	6	4	0	0		
Jaipur (East)	2330	“	1017.1	994.4	..	17.8	13.3	9.0	11.7	58	..	1.4	..	6.2	0	0	27	2	0	0	1	1	6	17	4	0	0			
	Pilani . . .	0830	..	..	..	11.9	9.7	7.4	10.3	75	..	1.6	..	4.8	0	0	28	0	0	1	8	9	3	4	3	3	0	0
Alwar . . .	0830	271	1018.5	986.0	..	10.9	10.8	10.8	12.8	99	..	2.6	..	0.3	0	0	3	9	5	2	0	1	0	0	0	1	28	0		
	1730	“	1015.1	984.0	..	21.7	19.0	17.8	19.6	75	..	2.8	..	(a) 1.9	0	0	13	2	3	1	2	0	2	0	2	17	1	0		
Sikar . . .	0830	433	1019.8	968.8	..	13.9	11.9	10.2	12.1	82	..	2.7	..	1.8	0	0	20	0	1	10	6	0	1	1	11	0	0			
	1730	“	1015.3	966.2	..	21.6	17.2	13.7	16.4	62	..	3.1	..	2.0	0	0	23	4	1	1	1	3	1	7	5	8	0	0		
Jaipur . . .	0830	436	1019.3	968.4	+0.2	14.1	11.2	8.3	11.0	70	+15	3.1	+1.6	5.6	0	0	26	2	6	11	4	2	0	0	1	5	0	0		
	1130	“	1018.6	968.9	..	21.6	14.1	6.9	10.1	40	..	2.8	..	7.2	0	0	31	2	1	3	3	8	9	4	1	0	0			
Jaipur (Sanganer Aerodrome)	1730	“	1015.5	966.0	..	22.1	15.0	8.9	13.0	43	..	3.2	..	4.3	0	0	24	2	0	2	3	2	2	7	6	7	0	0		
	0230	390	1017.2	971.5	..	13.0	10.9	8.9	11.7	74	..	0.8	..	0	0	0	20	4	2	11	0	0	0	0	3	11	0	0		
Jaipur (Sanganer Aerodrome)	0530	“	1017.4	971.4	..	12.1	10.3	8.5	11.4	77	..	1.2	..	0	0	0	19	4	4	10	0	0	0	0	1	12	0	0		
	0830	“	1018.9	973.1	..	14.2	11.6	9.1	11.7	71	..	2.3	..	0	0	0	20	2	4	11	1	0	0	0	2	11	0	0		
Jaipur (Sanganer Aerodrome)	1130	“	1018.4	973.6	..	20.7	14.4	8.6	11.0	47	..	2.6	..	0	1	27	1	1	6	7	4	3	3	3	0	0	0	0		
	1730	“	1015.1	977.7	..	21.7	15.0	9.1	12.0	46	..	2.9	..	0	0	0	25	1	1	2	2	3	1	7	8	6	0	0		
Dholpur . . .	2330	“	1017.7	971.9	..	13.9	11.5	8.7	11.5	69	..	1.1	..	0	0	0	22	8	2	9	0	0	0	1	2	9	0	0		
	0830	176	1019.2	998.3	..	14.9	12.6	10.2	13.0	73	..	1.3	..	1.2	0	0	9	0	0	1	3	0	1	2	22	0	0			
Ajmer . . .	1730	“	1015.1	995.2	..	22.1	17.0	12.0	15.2	53	..	1.5	..	1.4	0	0	11	4	0	2	1	0	0	2	20	0	0			
	0830	486	1019.9	962.9	+0.4	11.9	10.7	9.4	12.1	85	+28	2.9	+1.5	2.6	0	0	15	3	3	1	0	1	0	3	4	16	0	0		
Kotah . . .	1730	“	1015.2	960.4	..	21.4	14.7	9.3	11.9	46	..	2.8	..	5.4	0	0	23	3	1	1	2	2	4	7	8	0	0			
	0530	257	1017.5	987.2	..	13.8	11.9	10.1	12.4	79	..	0.8	..	0.3	0	0	3	0	0	0	0	0	0	0	28	0	0			
Chambal . . .	0830	“	1019.1	988.8	+0.5	15.1	12.6	10.5	12.5	74	+17	2.2	+0.8	1.1	0	0	11	1	0	2	1	1	2	2	21	0	0			
	1130	“	1018.4	989.0	..	23.3	16.5	10.7	12.5	46	..	2.1	..	1.0	0	0	10	0	1	2	2	1	0	2	2	21	0	0		
Chambal . . .	1730	“	1015.3	985.8	..	24.3	16.6	10.3	12.7	42	..	2.1	..	2.0	0	0	16	4	4	4	2	0	0	0	2	15	0	0		
	2330	“	1017.5	987.5	..	17.0	13.6	10.5	13.2	67	..	1.0	..	0.5	0	0	5	0	0	0	1	0	4	0	0	26	0	0		
Jhalawat . . .	0830	351	1019.5	978.3	..	14.2																								

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—December, 1958 (AGRAHAYANA 10, —PAUSA 10, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs.	Relative humidity %	Cloud amount (Oktas)		Wind speed (Kms.p.h.)		No. of observations														
			At mean sea level or height in g.p.m. of nearest standard isobaric level			At station level					Departure from normal		Mean wind speed, Kms. per hour		Wind direction														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
Madhya Pradesh (West)																													
<i>Con'd.</i>																													
Sheopur Kalan . . .	0830	235	1019.1	991.3	..	14.1	11.9	9.6	12.2	75	..	2.6	..	2.5	0	0	18	0	1	1	6	6	1	2	1	13	0	0	
	1730	"	1015.0	988.1	..	23.3	16.8	11.6	13.8	48	..	2.8	..	4.3	0	0	25	7	8	2	1	0	1	1	5	6	0	0	0
Guna . . .	0530	478	1018.1	961.8	..	10.5	9.0	7.4	10.5	82	..	1.7	..	1.7	0	0	13	0	2	0	7	4	0	0	0	18	0	0	
	0830	"	1019.1	963.6	+0.7	15.2	11.8	8.8	11.5	63	-3	2.6	+1.2	2.1	0	0	19	1	1	8	5	3	0	1	0	12	0	0	
	1130	"	1017.8	963.8	..	22.7	15.1	9.0	11.8	43	..	2.6	..	3.9	0	0	22	2	1	1	4	6	4	3	1	9	0	0	
	1730	"	1014.5	960.7	..	22.9	15.0	8.5	11.3	40	..	2.9	..	5.5	0	0	27	9	3	3	2	0	0	0	0	10	4	0	
	2330	"	1018.4	962.5	..	12.9	10.4	8.3	10.8	74	..	1.0	..	0.5	0	0	5	0	0	0	2	2	0	0	0	1	26	0	
Rajgarh . . .	0830	382	1019.2	974.1	..	12.7	10.7	8.5	11.2	76	..	1.9	..	1.1	0	0	9	5	0	1	3	0	0	0	0	0	22	0	
	1730	"	1014.1	971.2	..	24.9	16.2	8.5	11.4	36	..	0.8	..	3.0	0	0	19	11	1	1	4	2	0	0	0	0	12	0	
Neemuch . . .	0830	496	1019.7	962.3	+1.2	15.6	11.2	7.2	10.0	58	+5	2.8	+1.4	2.5	0	0	16	0	10	5	0	0	0	0	0	1	15	0	
	1730	"	1014.9	959.5	..	24.5	15.0	6.9	10.2	33	..	3.1	..	3.2	0	0	18	1	6	2	1	0	5	0	0	3	13	0	
Ratlam . . .	0830	486	1019.0	962.3	..	13.7	12.3	10.9	13.3	83	..	2.4	..	3.9	0	0	15	1	7	6	0	0	1	0	0	0	16	0	
	1730	"	1013.9	959.6	..	25.6	18.9	15.0	17.0	52	..	2.5	..	4.6	0	0	19	2	8	5	0	1	2	0	1	12	0		
Al'rajpur . . .	0830	293	1018.9	984.6	..	15.5	12.7	10.2	12.4	71	..	2.4	..	3.0	0	0	18	0	1	14	2	0	0	1	0	13	0		
	1730	"	1013.8	980.9	..	26.6	16.7	8.4	11.1	32	..	2.3	..	3.4	0	0	19	0	3	4	5	6	1	0	0	12	0		
Indore . . .	0530	567	1017.3	951.5	..	12.7	10.3	8.0	10.9	74	..	1.3	..	2.8	0	0	19	1	2	6	3	5	1	1	0	12	1		
	0830	"	1018.8	953.6	+0.9	16.1	12.2	8.8	11.4	63	+11	2.7	+1.3	4.7	0	0	19	0	3	4	5	6	1	0	0	12	0		
	1130	"	1017.0	953.6	..	23.5	15.0	8.1	10.8	37	..	2.8	..	10.9	0	2	27	0	3	9	5	10	0	1	1	2	0		
	1730	"	1013.9	950.7	..	23.7	15.4	8.8	11.5	39	..	2.8	..	7.5	0	0	27	6	9	3	1	3	2	0	0	3	4	0	
Bhopal (Bairagarh) . . .	0230	523	1017.0	956.5	..	15.6	11.8	8.5	11.2	63	..	1.4	..	3.9	0	0	21	0	3	6	1	7	3	1	0	10	0		
	0530	"	1017.6	956.8	..	12.9	10.3	8.0	10.6	72	..	0.8	..	4.5	0	0	21	4	6	2	7	1	1	0	0	10	0		
	0830	"	1018.9	958.8	+0.9	16.8	12.5	8.9	11.5	61	+1	2.0	+0.3	4.9	0	0	20	0	7	4	6	2	0	1	0	11	0		
	1130	"	1017.4	958.6	..	23.1	15.0	8.5	11.2	40	..	2.0	..	11.6	0	2	29	1	3	9	7	8	1	1	1	0	0		
	1730	"	1014.5	955.8	..	23.8	14.7	8.0	10.9	38	..	1.9	..	7.1	0	0	29	7	9	2	5	1	1	1	3	2	0		
	2330	"	1017.5	957.3	..	16.1	11.8	7.9	10.7	59	..	0.7	..	4.6	0	0	21	2	6	3	7	2	0	0	1	10	0		
Khandwa . . .	0830	318	1018.7	981.7	+1.3	17.3	13.5	10.0	12.4	63	+3	2.3	+0.9	2.6	0	0	20	1	7	2	7	2	0	0	1	11	0		
	1730	"	1013.8	978.0	..	26.4	16.8	8.9	11.3	33	..	2.6	..	4.3	0	0	28	8	15	1	1	1	0	0	2	3	0		
Hoshangabad . . .	0830	302	1019.4	984.2	+1.1	16.8	12.7	8.9	11.7	60	0	1.2	-0.2	4.2	0	0	25	2	3	15	4	1	0	0	0	6	0		
	1730	"	1014.5	980.3	..	25.1	16.7	9.6	12.8	38	..	2.0	..	1.1	0	0	11	2	0	8	0	1	0	0	0	20	0		
Betul . . .	0830	653	1019.3	944.6	..	15.4	12.4	9.9	12.0	69	..	1.8	..	2.4	0	0	22	0	4	13	4	0	1	0	0	9	0		
	1730	"	1014.2	941.5	..	22.5	15.3	9.7	12.1	44	..	2.4	..	3.4	0	0	28	10	14	1	1	0	0	0	2	3	0		
Chhindwara . . .	0830	685	1019.7	941.1	..	14.6	11.8	9.4	11.8	71	..	1.7	..	0.8	0	0	6	1	2	0	0	0	0	1	2	25	0		
	1730	"	1013.9	937.8	..	22.6	14.5	7.7	10.6	39	..	2.1	..	4.3	0	0	28	2	4	1	4	6	3	4	4	3	0		
Seoni . . .	0830	619	1019.1	948.3	+1.3	16.2	12.8	10.0	12.2	67	+7	2.1	+0.7	0.9	0	0	6	2	4	0	0	0	0	0	0	0	25	0	
	1730	"	1014.0	945.0	..	22.4	15.1	9.5	11.7	45	..	2.0	..	1.8	0	0	19	3	6	2	3	2	2	0	1	12	0		
Sagar . . .	0830	551	1018.6	955.5	+0.8	17.7	12.8	8.6	11.3	56	+6	1.5	+0.1	5.2	0	0	24	0	4	8	4	3	2	1	2	7	0		
	1730	"	1014.3	952.6	..	22.7	14.6	8.1	10.9	39	..	2.0	..	4.1	0	0	28	0	6	6	2	0	0	0	8	6	3	0	
Nowrang . . .	0830	229	1020.0	992.8	+1.1	12.3	11.1	10.0	12.2	87	+11	1.7	+0.2	2.1	0	0	19	0	0	1	0	6	11	1	0	12	0		
	1730	"	1015.7	989.5	..	23.1	16.7	11.7	13.8	49	..	2.2	..	1.0	0	0	9	1	3	0	0	0	0	0	5	22	0		
Madhya Pradesh (East)																													
Sutna . . .	0530	317	1017.9	980.1	..	10.4	9.3	8.2	10.9	87	..	0.8	..	0.3	0	0	3</td												

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—DECEMBER, 1958 (AGRAHAYANA 10, —PAUSA 10, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Octas)	Wind speed (Kms.p.h.)	No. of observations															
			At mean sea level or height in ft.p.m. nearest stand. barometric level	At station level	Departure from normal	Dry bulb	Wet bulb	Dew point						Mean amount	Departure from normal	Mean wind speed per hour	20 to 61	1 to 19	N	NE	E	SE	S	SW	W	NW	Calm	Variable	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
Madhya Pradesh (East) Contd.																													
Pendra—Contd.	1130	625	1017.0	947.1	..	21.9	14.6	8.7	11.2	44	..	1.4	..	5.8	0	0	27	11	4	1	0	4	4	1	2	4	0		
	1730	"	1014.7	944.6	..	20.2	14.3	9.4	12.0	51	..	2.2	..	3.1	0	0	25	7	5	0	1	3	2	3	4	6	0		
	2330	"	1017.9	946.1	..	14.3	11.4	8.6	11.4	69	..	0.7	..	2.9	0	0	23	4	0	0	0	4	4	5	6	8	0		
Ambikapur	0830	611	1019.8	949.4	..	14.4	12.0	10.2	12.3	76	..	0.8	..	1.8	0	0	13	1	1	1	0	3	6	1	0	18	0		
	1730	"	1014.8	946.2	..	20.9	14.9	10.0	12.4	50	..	1.5	..	5.5	0	0	30	24	2	0	0	0	0	0	1	2	1	0	
Champa	0830	245	1019.1	990.5	..	16.9	14.1	11.7	13.7	72	..	2.2	..	4.4	0	0	26	25	0	0	0	0	0	0	1	5	0	0	
	1730	"	1014.8	986.9	..	24.6	17.0	11.1	13.2	44	..	1.8	..	2.0	0	0	19	13	0	1	0	0	0	0	2	3	12	0	
Raigarh	0830	220	1018.8	993.1	..	18.4	14.7	11.6	13.7	65	..	1.8	..	3.4	0	0	29	2	23	4	0	0	0	0	0	0	2	0	0
	1730	"	1014.2	989.2	..	24.4	17.0	11.1	13.3	44	..	2.0	..	3.6	0	0	29	6	12	2	3	0	0	0	0	2	4	2	0
Raipur	0530	298	1016.9	981.9	..	14.9	13.0	11.4	13.4	79	..	1.4	..	0.9	0	0	8	6	1	1	0	0	0	0	0	0	0	23	0
	0830	"	1018.8	984.2	+1.1	18.3	14.9	12.1	14.2	68	+4	2.1	+0.9	2.1	0	0	14	5	3	3	2	1	0	0	0	0	17	0	
	1130	"	1017.3	983.4	..	24.5	17.1	11.3	13.5	44	..	1.6	..	3.4	0	0	24	7	2	6	4	2	1	0	0	2	7	0	
Kanker	1730	"	1014.5	980.7	..	24.1	17.1	11.9	13.9	46	..	2.3	..	1.7	0	0	14	8	3	2	0	1	0	0	0	0	17	0	
	2330	"	1016.6	982.1	..	18.7	14.6	10.8	13.2	61	..	1.1	..	1.3	0	0	11	1	2	6	1	0	0	0	0	0	0	20	0
Jagdalpur (P.B.O.)	0830	402	1018.8	972.5	+1.3	16.9	14.6	12.6	14.3	76	+1	1.4	-0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1730	"	1014.2	969.0	..	23.5	17.3	12.7	14.9	51	..	2.3	..	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GUJARAT Deesa	0530	553	1017.1	953.4	..	12.8	12.2	11.7	13.8	94	..	0.8	..	0.2	0	0	2	0	0	0	0	0	0	0	0	0	0	29	0
	0830	"	1018.9	955.9	+1.4	16.6	14.1	12.1	14.2	79	-2	2.0	-0.2	0.6	0	0	6	3	2	0	0	0	0	0	0	0	1	25	0
	1130	"	1016.0	954.4	..	24.7	16.9	11.8	13.6	43	..	2.6	..	3.6	0	0	24	3	13	3	1	2	0	0	0	0	2	7	0
Idar	1730	"	1013.6	951.9	..	23.0	17.2	13.4	15.3	55	..	3.7	..	1.2	0	0	12	5	5	0	0	1	0	0	0	1	19	0	
	2330	"	1017.1	953.7	..	15.6	14.0	12.8	14.9	81	..	0.8	..	0.1	0	0	1	0	0	0	0	0	0	0	0	0	0	30	0
Ahmedabad	0230	55	1015.3	1008.8	..	16.6	13.9	11.6	13.7	73	..	1.1	..	5.0	0	0	22	5	8	5	1	0	1	0	2	9	0		
	0530	"	1015.3	1008.8	..	15.3	13.1	11.2	13.3	77	..	1.0	..	6.0	0	0	24	0	16	4	0	2	0	0	0	2	7	0	
	0830	"	1017.3	1010.8	+0.5	17.6	14.3	11.5	13.6	68	+8	2.5	+1.5	11.1	0	0	28	0	13	12	0	1	0	0	0	2	3	0	
Dohad	1130	"	1017.4	1011.1	..	26.0	18.5	13.2	15.2	46	..	2.3	..	13.0	0	3	27	1	2	19	6	0	1	0	1	1	0	0	0
	1730	"	1013.8	1007.6	..	28.0	19.0	12.5	14.7	39	..	2.4	..	6.8	0	0	25	2	5	7	1	2	3	2	3	6	0		
Baroda (Aerodrome)	2330	"	1015.9	1009.5	..	18.6	15.0	12.0	14.1	66	..	1.5	..	4.9	0	0	22	3	6	8	1	1	0	1	2	9	0		
	0830	333	1018.0	979.3	..	16.4	13.4	10.8	12.9	70	+5	1.2	-0.3	5.9	0	0	25	0	3	15	2	4	1	0	0	6	0		
	1730	"	1013.8	976.4	..	26.4	17.2	9.6	12.3	35	..	0.5	..	5.2	0	0	19	0	6	4	0	2	4	2	1	12	0		
Baroda	0530	34	1015.0	1010.8	..	15.4	13.8	12.4	14.4	84	..	0.8	..	1.4	0	0	11	0	6	3	1	0	0	0	0	1	20	0	
	0830	"	1017.1	1012.9	..	17.7	14.9	12.7	14.7	73	+9	1.7	+0.7	1.2	0	0	11	0	9	2	0	0	0	0	0	0	20	0	
	1130	"	1017.1	1013.1	..	27.6	18.9	12.6	14.8	40	..	2.1	..	3.7	0	0	23	1	12	4	3	2	0	0	0	1	8	0	
Surat	1730	"	1013.5	1009.5	..	28.1	20.2	15.0	17.2	45	..	2.2	..	1.6	0	0	12	2	4	2	0	0	2	0	0	2	19	0	
	2330	"	1015.8	1011.7	..	18.5	15.7	13.5	15.5	73	..	1.4	..	1.3	0	0	13	0	10	1	0	0	0	0	0	0	2	18	0
Saurashtra and Kutch Naliya	0830	38	1017.2	1012.7	..	18.4	15.0	12.1	14.3	67	..	2.1	..	4.1	0	0	24	9	7	4	3	0	0	0	0	1	7	0	
	1130	"	1017.1	1012.8	..	27.7	18.5	11.6	13.9	37	..	2.5	..	10.5	0	3	26	1	5	11	7	0	1	2	2	2	0	0	
	1730	"	1013.5	1009.2	..	28.6	19.1	12.3	14.4	37	..	2.6	..	5.5	0	0	26	8	6	3	1	0	1	2	5	5	0		
Broach	0830	17	1016.6	1014.5	..	16.8	14.6	12.6	14.8	77	..	1.5	..	4.0	0	0	30	4	11	3	8	0	4	0	0	0	1	1	0
	1730	"	1013.0	1011.0	..	29.8	20.5	14.3	16.6	39	..	2.2	..	4.4	0	0	30	4	11	3	8	0	4	0	0	0	1	0	0
Bhuj (P.B.O.)	0530	12	1014.4	1013.0	..	18.8	15.4	12.7	14.9	68	..	1.0	..	7.2	0	0	28	7	11	8	2	0	0	0	0	0	0	3	0

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—DECEMBER, 1958 (AGRAHAYANA 10,—PAUSA 10, 1880 SAKA)

Division and station	Hour of observation I. S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Cloud amount Okta's			Wind speed (Kms. p.h.)			No. of observations															
			At mean sea level or height in 8 p.m. of nearest standard barometric level			At station level			Departure from normal			Relative humidity %			Departure from normal			Mean amount			Wind speed, Kms. per hour			Wind direction						
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	Calm	Variable
Saurashtra and Kutch —Contd.																														
Bhuj (Aerodrome)—Contd.	1730	80	1014.2	1005.0	..	27.2	17.2	8.6	11.6	32	..	2.2	..	14.3	0	5	26	12	10	1	3	0	2	2	0	0	1			
	0830	5	1017.5	1016.9	..	18.5	14.8	11.6	13.8	65	..	3.2	..	6.7	0	0	30	8	3	3	2	0	1	1	12	1	0			
Mandvi . . .	1730	“	1014.3	1013.7	..	27.1	18.3	11.4	13.9	39	..	2.5	..	10.7	0	4	26	5	8	3	2	1	5	1	5	1	0			
	0830	9	1017.3	1016.2	..	18.8	16.1	14.0	16.0	75	..	1.9	..	14.0	0	3	28	6	24	0	0	0	0	0	0	1	0	0		
Dwarka . . .	1730	“	1014.1	1013.1	..	25.5	22.2	20.0	24.0	73	..	2.4	..	14.0	0	2	29	0	7	0	2	7	5	9	1	0	0	0		
	0830	11	1017.1	1015.8	+0.5	20.8	17.5	15.3	17.3	71	+7	3.0	+1.5	7.2	0	1	24	2	15	4	1	0	1	2	0	0	6	0		
Porbandar . . .	1730	“	1014.2	1012.9	..	25.9	18.6	13.2	15.4	47	..	2.3	..	14.0	0	2	29	9	7	2	0	0	0	0	3	10	0	0		
	0830	7	1016.6	1015.8	..	19.5	16.4	13.9	16.3	72	..	2.4	..	7.6	0	0	31	12	14	3	0	0	0	0	0	2	0	0		
Porbandar (Aerodrome)	1730	“	1013.4	1012.6	..	27.5	20.3	15.5	17.9	49	..	1.2	..	10.8	0	0	31	1	0	0	0	0	1	8	21	0	0			
	0830	7	1016.7	1015.9	..	20.3	16.2	13.5	15.1	67	..	2.1	..	7.9	0	2	22	5	7	4	6	1	0	0	1	6	0			
Jamnagar . . .	0530	23	1015.3	1012.6	..	15.5	13.3	11.1	13.5	76	..	1.3	..	8.5	0	0	31	4	7	7	6	4	1	1	0	0	0			
	0830	“	1017.1	1014.5	+0.5	18.6	14.9	12.1	14.1	66	+5	2.9	+1.9	9.6	0	4	26	1	7	9	8	4	1	0	0	1	0			
Rajkot (Aerodrome) .	1130	“	1017.5	1014.9	..	25.8	18.4	12.9	15.2	46	..	2.6	..	15.5	0	9	22	4	16	6	0	1	0	2	2	0	0			
	0830	134	1017.3	1001.7	+1.0	18.3	13.9	9.7	12.3	58	+9	1.3	-0.1	6.0	0	0	27	4	8	8	5	0	1	0	1	4	0			
Surendranagar . . .	1130	“	1016.8	1001.6	..	26.9	17.3	9.4	11.9	34	..	1.1	..	17.1	0	8	23	4	12	5	5	0	0	2	3	0	0			
	0830	74	1017.3	1008.5	..	18.5	14.3	10.6	13.0	61	..	2.3	..	5.8	0	0	26	8	8	2	0	0	1	1	6	5	0			
Bhavnagar . . .	1730	“	1013.5	1005.0	..	28.5	18.4	10.5	13.0	33	..	2.0	..	6.5	0	1	27	6	16	0	0	1	0	2	3	3	0			
	0830	17	1017.2	1015.2	+0.9	17.9	14.7	12.0	14.1	70	+22	0.9	-0.5	2.2	0	0	22	2	0	0	1	1	4	6	8	9	0			
Bhavnagar (Aerodrome)	1730	“	1013.7	1011.7	..	28.6	20.7	15.7	18.0	46	..	1.9	..	3.8	0	0	30	1	14	10	2	2	0	0	1	1	0			
	0830	11	1016.9	1015.6	..	19.2	15.3	12.1	14.2	64	..	1.4	..	10.0	0	2	25	6	0	2	0	0	1	7	11	4	0			
Mahuva . . .	1130	“	1017.0	1015.8	..	24.9	18.9	14.7	16.9	54	..	1.6	..	16.3	0	7	24	7	16	7	0	0	1	0	0	0				
	0830	16	1016.2	1014.4	..	20.5	17.9	16.1	18.4	76	..	0.9	..	14.7	0	5	25	1	21	6	8	2	2	0	0	0	3	4	0	
Keshod . . .	1730	“	1013.1	1011.3	..	28.4	22.9	19.8	23.4	61	..	1.3	..	12.2	0	2	25	2	4	10	10	0	1	0	0	0	0	0		
	0830	51	1017.0	1011.0	..	21.1	16.4	13.2	14.8	62	..	2.1	..	12.1	0	1	30	0	14	16	0	1	0	0	0	5	0	0		
Veraval . . .	0230	8	1014.7	1013.8	..	18.4	15.4	12.7	15.0	70	..	0.2	..	9.9	0	1	30	9	21	0	0	0	0	1	0	0	0			
	0530	“	1014.6	1013.7	..	17.7	14.7	12.1	14.2	71	..	0.3	..	12.0	0	2	28	10	18	1	0	0	0	0	1	1	0			
Konkan Dahanu . . .	0830	“	1016.3	1015.4	+0.7	20.1	15.5	11.6	13.9	60	+11	1.3	+0.1	12.0	0	5	23	5	20	2	0	0	0	0	1	3	0			
	1130	“	1016.5	1015.6	..	27.8	19.3	13.1	15.4	42	..	1.5	..	14.5	0	9	21	5	7	4	0	2	8	2	1	1	0			
Bombay (Colaba) . . .	1730	“	1013.4	1012.5	..	26.6	21.0	17.4	20.3	59	..	1.6	..	15.8	0	7	24	0	2	0	1	5	8	9	6	0				
	0830	11	1015.7	1014.8	..	20.1	16.6	13.8	16.0	68	..	0.7	..	10.6	0	2	29	16	12	1	0	0	0	1	0	0				
Bombay (Santacruz Aerodrome)	2330	“	1015.7	1014.8	..	20.1	16.6	13.8	16.0	68	..	0.7	..	7.3	0	2	29	1	1	21	8	0	0	0	0	0	0			
	0830	“	1015.5	1015.0	+1.8	21.5	17.4	14.1	16.5	64	-11	2.0	0	24.7	0	19	12	26	0	0	0	0	0	1	4	0				
Alibag . . .	1730	5	1012.6	1012.1	..	26.8	22.1	19.2	22.7	64	..	1.8	..	24.7	0	19	12	26	0	0	0	0	0	1	4	0				
	0830	“	1015.5	1014.3	+0.7	23.3	20.7	19.2	22.2	78	+8	2.0	+0.6	5.0	0	1	27	2	13	12	1	0	0	0	0	3	0			
Ratnagiri . . .	1130	“	1012.4	1011.2	..	27.5	23.4	21.4	25.4	69	..	2.2	..	8.5	0	0	30	5	0	0	0	0	0	4	21	1				
	0830	15	1013.7	1012.0	..	21.1	18.1	16.0	18.2	74	..	0.8	..	6.2	0	1	27	3	10	14	1	0	0	0	0	3	0			
Vengurla . . .	0230	“	1015.5	1013.8	+0.6	23.5	18.5	14.9	17.2	59	-6	1.7	+0.3	10.0	0	1	27	0	7	20	1	0	0	0	0	0	3	0		
	0530	“	1015.5	1013.8	+0.6	23.5	18.5	14.9	17.2	59	-6	1.7	+0.3	10.0	0	1	27	0	7	20	1	0	0	0	0	0	3	0		
Alibag . . .	1730	“	1014.7	1013.0	..	22.5	19.2	16.9	19.5	72	..	0.5	..	4.4																

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—DECEMBER, 1958 (AGRAHAYANA 10,—PAUSA 10, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs.			Cloud amount (Oktas)			Wind speed (Kms. p.h.)			No. of observations												
			At mean sea level or height in g.p.m. of nearest standard isobaric level			At station level			Departure from normal			Relative humidity %			Departure from normal			Mean amount			Wind speed Kms. per hour			Wind direction						
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28		
Maharashtra—Contd.																														
Nandurbar . . .	0830	206	1017.9	994.1	..	21.4	15.6	10.6	13.0	51	..	3.1	..	9.2	0	0	31	2	22	5	0	0	2	0	0	0	0	0		
	1730	..	1013.4	990.2	..	28.2	18.6	11.1	13.6	35	..	4.2	..	7.4	0	0	30	2	24	1	0	0	2	0	1	1	0	0		
Jalgaon . . .	0830	201	1018.3	994.8	..	17.5	14.2	11.3	13.5	67	..	1.6	..	10.1	0	0	29	0	0	20	8	0	0	1	1	3	1	3	0	
	1730	..	1013.5	990.9	..	27.9	18.5	11.6	13.6	36	..	1.7	..	7.3	0	0	28	2	9	10	1	1	1	3	1	3	0	0		
Malegaon. . .	0830	437	1018.0	967.7	+1.0	18.0	13.9	10.3	12.5	62	+5	1.9	+0.3	1.1	0	0	9	1	0	1	0	1	0	5	1	22	0	0		
	1730	..	1012.4	963.9	..	27.6	17.6	9.2	12.0	32	..	1.9	..	5.3	0	1	25	1	6	13	1	2	0	0	0	2	6	0		
Deolali . . .	0830	571	1018.4	952.9	..	16.7	13.8	11.5	13.8	72	..	2.3	..	4.4	0	0	27	20	6	0	0	0	1	0	0	4	0	0		
	1730	..	1012.5	949.6	..	27.1	17.6	11.1	13.3	37	..	3.0	..	6.6	0	0	29	8	8	3	2	0	2	4	2	2	0	0		
Aurangabad . . .	0830	581	1017.9	952.3	+1.0	20.3	15.2	11.2	13.5	57	+4	2.1	+0.4	5.1	0	0	29	0	3	25	0	0	0	1	0	2	0	0		
	1730	..	1012.9	948.7	..	25.4	17.2	11.5	13.7	42	..	2.4	..	3.0	0	0	25	1	3	15	4	1	0	0	1	6	0	0		
Aurangabad (Chikalthana Aerodrome). . .	0230	579	1016.3	949.7	..	14.0	12.0	10.1	12.3	76	..	1.0	..	0.6	0	0	3	0	0	1	1	0	0	0	1	28	0	0		
	0530	..	1016.8	949.7	..	12.9	11.1	9.6	11.9	81	..	1.3	..	0.3	0	0	2	0	0	0	1	0	0	0	1	29	0	0		
	0830	..	1017.7	951.9	..	18.4	14.5	11.7	13.7	65	..	1.8	..	0.8	0	0	4	0	0	2	2	0	0	0	0	27	0	0		
	1130	..	1016.3	951.8	..	24.5	17.4	12.7	14.6	47	..	1.7	..	11.4	0	1	27	0	0	12	14	2	0	0	0	3	0	0		
	1730	..	1012.4	948.5	..	25.7	17.6	12.0	14.2	42	..	3.0	..	4.1	0	0	19	1	1	10	5	1	0	0	1	12	0	0		
	2330	..	1016.9	950.5	..	15.8	12.7	9.9	12.5	70	..	1.5	..	2.0	0	0	9	1	2	3	2	0	0	1	0	22	0	0		
Ahmednagar . . .	0830	657	1017.8	943.3	+1.0	18.0	13.9	10.6	12.8	62	+7	1.7	+0.3	3.1	0	0	25	0	2	0	8	0	2	0	13	6	0			
	1730	..	1011.8	939.9	..	27.1	18.0	11.9	14.0	39	..	2.6	..	3.2	0	0	24	0	15	0	5	0	3	0	1	7	0	0		
Parbhani . . .	0830	423	1018.3	969.7	..	18.8	15.1	12.0	14.1	65	..	1.6	..	4.0	0	0	25	2	6	15	2	0	0	0	0	6	0	0		
	1730	..	1013.4	966.1	..	26.1	18.5	13.0	15.2	45	..	2.8	..	4.1	0	0	27	3	12	11	0	0	0	1	0	4	0	0		
Poona . . .	0530	559	1015.8	951.6	..	15.1	13.6	12.9	14.5	81	..	1.2	..	0.3	0	0	2	0	0	1	1	0	0	0	0	29	0	0		
	0830	..	1017.5	953.7	+0.9	17.6	14.8	12.6	14.8	73	+2	1.7	+0.3	0.4	0	0	4	0	2	0	0	0	0	1	0	27	0	0		
	1130	..	1014.9	953.0	..	26.2	17.8	12.0	14.4	42	..	1.7	..	5.9	0	0	27	3	5	11	5	0	1	0	2	4	0	0		
	1730	..	1011.2	949.7	..	27.2	18.0	11.7	13.9	38	..	2.7	..	2.3	0	0	17	5	4	5	0	0	0	0	0	3	14	0		
	2330	..	1015.6	952.1	..	18.9	15.5	13.6	15.2	69	..	1.5	..	0.4	0	0	3	1	1	1	0	0	0	0	0	0	28	0	0	
Poona (Lohagaon Aerodrome). . .	0230	593	1015.1	947.8	..	18.3	14.6	11.7	13.8	66	..	1.5	..	2.1	0	0	9	0	0	4	1	0	0	0	2	22	0	0		
	0530	..	1015.5	947.9	..	16.7	13.8	11.6	13.7	72	..	1.2	..	1.3	0	0	7	1	1	4	0	0	0	0	1	24	0	0		
	0830	..	1017.2	949.9	..	19.1	14.7	11.3	13.4	61	..	2.2	..	4.5	0	0	19	0	2	15	1	0	0	0	0	1	12	0	0	
	1130	..	1015.3	949.6	..	25.7	17.3	11.4	13.7	41	..	2.3	..	13.7	0	1	30	0	1	20	10	0	0	0	0	0	0	0	0	
	1730	..	1011.2	946.1	..	27.4	17.4	10.0	12.6	34	..	2.7	..	6.8	0	0	26	2	2	17	2	0	0	2	1	5	0	0		
	2330	..	1015.5	948.5	..	19.9	15.0	11.2	13.5	58	..	1.5	..	2.9	0	0	13	2	0	5	1	0	0	2	3	18	0	0		
Baramati . . .	0830	551	1017.7	955.0	..	18.4	14.6	11.8	13.7	66	..	1.3	..	5.0	0	0	25	2	3	9	3	0	0	3	5	6	0	0		
	1730	..	1011.3	950.9	..	28.1	18.9	13.1	15.1	40	..	2.8	..	8.8	0	0	31	0	3	9	14	2	2	0	1	0	0	0	0	
Jeur . . .	0830	521	1017.1	957.8	..	18.8	13.8	9.6	12.2	56	..	1.0	..	1.3	0	0	6	1	0	2	2	0	0	0	1	25	0	0		
	1730	..	1011.0	953.8	..	28.4	17.8	10.0	12.8	33	..	2.9	..	2.6	0	0	15	0	4	6	4	0	0	1	0	16	0	0		
Sholapur . . .	0530	479	1015.6	960.7	..	17.7	14.5	12.2	14.2	70	..	0.9	..	6.9	0	0	23	0	7	12	4	0	0	0	0	0	0	0	0	
	0830	..	1017.1	962.9	+1.2	21.6	17.0	13.7	16.1	63	+10	2.0	+0.4	9.3	0	0	29	0	8	0	21	0	0	0	0	0	0	0	0	
	1130	..	1015.7	962.4	..	26.6	19.7	15.7	17.8	51	..	1.9	..	9.7	0	0	28	0	1	3	21	3	0	0	0	0	0	0	0	0
	1730	..	1011.5	958.8	..	28.2	19.8	15.1	17.1	46	..	3.2	..	6.7	0	0	25	0	13	1	9	0	0	0	0	0	0	0	0	
	2330	..	1015.4	961.2	..	21.3	15.8	11.8	13.9	55	..	1.3	..	10.5	0	1	27	0	8	13	7	0	0	0	0	0	0	0	0	
Miraj . . .	0830	554	1016.5	953.9	+0.7	20.1	15.7	12.5	14.6	62	+2	2.1	+0.3	..	0	0	21	0	5	11	5	0	0</td							

TABLE III.—SUMMARY OF OBSERVATIONS AT FIXED HOURS—DECEMBER, 1958. (AGRAHAYANE 10, —PAUSA 10, 1880 SAKA)

Division and station	Hours of observation I. S. T.	Mean pressure in millibars										Mean temperature in °C				Cloud amount (Oktas)		Wind speed (Km. p.h.)		No. of observations									
		Height of barometer cistern above mean sea level in metres		At mean sea level or height in g. p. m. of nearest standard isobaric level		At station level		Dry bulb	Wet bulb	Dew point	Vapour pressure in mb.	Relative humidity %		Departure from normal	Mean amount	Departure from normal	Mean wind speed Km.s per hour	20 to 61	1 to 19	N	NE	E	SE	S	SW	W	NW	Calm	Variable
		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
1.	2																												
Vidharbha—Contd. Nagpur	0230	310	1016.5	980.1	..	14.5	12.8	11.3	13.3	82	..	1.0	..	3.9	0	0	27	14	1	0	1	0	0	1	10	4	0		
	0530	..	1017.1	980.5	..	13.2	11.9	10.7	13.0	86	..	0.9	..	3.6	0	0	26	13	2	0	0	0	0	1	10	5	0		
	0830	..	1019.1	982.9	+1.2	16.5	14.0	11.8	13.9	74	+12	1.5	-0.2	2.7	0	0	22	17	1	1	0	0	0	0	3	9	0		
	1130	..	1017.4	982.2	..	24.7	17.3	11.7	13.8	44	..	1.4	..	6.1	0	0	30	5	5	12	5	0	2	0	1	1	0		
	1730	..	1014.3	979.1	..	24.2	17.2	11.9	14.1	47	..	2.0	..	4.5	0	0	28	1	11	10	5	0	0	0	1	3	0		
	2330	..	1017.2	980.9	..	15.7	13.6	11.7	13.9	77	..	0.9	..	2.4	0	0	17	7	4	3	1	0	0	0	2	14	0		
Gondia	0830	313	1019.3	982.8	..	16.4	13.9	12.0	13.8	75	..	1.0	..	1.9	0	0	19	4	12	1	1	0	0	0	0	12	1		
Brahmapuri	1730	..	1014.7	979.3	..	24.4	17.2	11.7	13.8	45	..	1.5	..	0.6	0	0	5	3	1	0	0	0	0	0	1	26	0		
Chanda	0830	229	1018.5	991.7	..	16.6	14.6	13.1	14.9	80	..	2.3	..	3.0	0	0	29	2	19	2	2	0	0	0	0	4	2		
Sironcha	1730	..	1014.5	988.8	..	25.4	17.6	11.7	13.8	43	..	2.2	..	1.7	0	0	17	8	4	3	1	2	2	1	3	3	11	0	
Coastal Andhra Pradesh Nellore	0830	193	1018.5	995.9	+1.0	17.6	15.3	13.6	15.7	77	+5	2.2	+0.7	2.3	0	0	20	4	2	3	2	0	0	0	1	12	0		
	1730	..	1014.5	992.4	..	24.3	18.6	14.7	15.9	55	..	2.0	..	1.5	0	0	11	1	4	5	1	0	0	0	0	20	0		
	2330	..	1018.6	1004.2	..	18.5	16.5	15.6	17.2	80	..	1.7	..	2.5	0	0	19	9	4	3	2	0	0	0	1	12	0		
	0530	20	1014.3	1011.9	..	21.4	20.9	20.5	24.2	95	..	2.3	..	1.7	0	0	15	0	4	0	0	0	0	1	10	16	0		
	0830	..	1016.5	1014.2	+1.1	23.4	22.1	21.4	25.6	89	+5	3.8	-0.2	4.0	0	0	28	1	2	0	0	0	0	3	22	3			
	1130	..	1015.9	1013.5	..	26.9	23.0	21.0	26.4	71	..	5.7	..	6.9	0	0	28	4	16	2	1	0	1	0	4	3	0		
Ongole	0830	12	1016.9	1015.6	..	25.8	22.1	20.1	23.4	71	..	2.8	..	8.2	0	0	27	7	18	2	0	0	0	0	0	4	0		
Rentachintala	1730	..	1013.3	1012.0	..	26.8	22.1	19.5	22.7	64	..	2.3	..	3.1	0	0	17	0	6	3	8	0	0	0	2	0	29	0	
Gannavaram	0230	24	1014.3	1011.6	..	21.1	19.7	18.8	21.7	87	..	0.5	..	3.1	0	0	16	3	6	5	2	0	0	0	0	15	0		
Masulipatam	0530	..	1014.7	1012.0	..	20.5	19.2	18.1	21.1	88	..	1.0	..	3.3	0	0	18	6	8	4	0	0	0	0	0	13	0		
	0830	..	1016.9	1014.2	..	23.9	20.6	18.7	21.5	73	..	1.5	..	9.3	0	0	29	8	14	7	0	0	0	0	0	2	0		
	1130	..	1016.1	1013.5	..	27.7	21.3	17.7	20.1	54	..	2.7	..	11.7	0	3	27	2	7	19	2	0	0	0	0	1	0		
	1730	..	1013.2	1010.6	..	27.3	21.2	17.3	20.2	55	..	2.8	..	5.3	0	0	25	1	2	17	4	1	0	0	0	0	6	0	
	2330	..	1015.5	1012.8	..	22.3	20.4	19.2	22.3	83	..	0.6	..	4.9	0	0	27	0	7	17	2	1	0	0	0	0	4	0	
	0530	3	1014.9	1014.5	..	20.9	20.1	19.7	22.9	93	..	3.0	..	6.2	0	0	31	19	9	2	0	0	0	0	0	1	0	0	
Nidadavolu	0830	..	1017.1	1016.7	+0.8	24.0	21.5	20.1	23.7	79	+1	2.5	+0.5	11.9	0	0	31	16	12	3	0	0	0	0	0	0	0	0	
	1130	..	1016.2	1015.9	..	27.3	22.5	20.1	23.3	65	..	3.3	..	12.4	0	0	31	2	12	15	2	0	0	0	0	0	0	0	
	1730	..	1013.8	1013.5	..	25.9	22.4	20.5	24.3	72	..	3.5	..	10.0	0	0	31	0	1	6	23	1	0	0	0	0	0	0	
	2330	..	1015.5	1015.2	..	23.5	21.5	20.4	24.0	83	..	1.8	..	6.3	0	0	28	5	3	14	6	0	0	0	0	0	3	0	
	0830	12	1017.3	1015.8	..	22.7	20.0	18.3	21.2	77	..	4.5	..	9.5	0	0	31	16	13	2	0	0	0	0	0	0	3	0	
	1730	..	1013.4	1012.0	..	27.0	21.1	17.6	20.2	57	..	4.9	..	10.0	0	1	27	0	7	18	3	0	0	0	0	0	1	0	
Kakinada	0830	8	1017.4	1016.5	+1.1	25.6	21.6	19.2	22.5	67	-5	2.4	-0.2	10.5	0	1	30	3	27	0	0	0	0	0	1	0	0		
Visakhapatnam	1730	..	1014.1	1013.2	..	25.9	21.4	18.9	21.9	65	..	2.8	..	10.5	0	0	31	0	25	2	4	0	0	0	0	0	0		
Telangana Ramagundam	0230	3	1015.1	1014.7	..	21.0	19.3	18.3	20.1	85	..	1.1	..	1.6	0	0	10	1	0	0	0	0	0	0	1	8	21	0	
	0530	..	1015.7	1015.3	..	20.3	18.9	18.0	20.7	87	..	1.2	..	2.4	0	0	13	2	1	0	0	0	0	0	0	10	18	0	
	0830	..	1017.8	1017.4	+1.3	24.3	20.5	18.2	21.3	69	+2	1.5	-1.2	2.7	0	0	13	0	2	1	0	0	0	0	0	10	18	0	
	1130	..	1016.6	1016.2	..	27.8	21.1	17.0	19.6	52	..	3.5	..	8.0	0	2	23	1	4	13	5	0	0	0	1	6	1		
	1730	..	1014.4	1014.0	..	25.0	20.4	17.6	20.4	64	..	2.9	..	7.3	0	0	28	0	0	24	3	1	0	0	0	0	9	19	0
	2330	..	1016.2	1015.8	..	21.9	19.8	18.6	21.3	81	..	1.7	..	2.1	0	0	12	1	1	1	0	0	0	0	0	7	16	0	
Calingapatam	0830	6	2.1	+0.2	6.0	0	0	31	8	0	0	0	0	0	0	0	7	16	0	
1730	..	..	..	..	..	..	..	..	..	..	..	2.6	..	7.3	0	0	31</td										

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—DECEMBER, 1958 (AGRAHAYANA 10—PAUSA 10, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Cloud amount (Oktas)			Wind speed (Km p.h.)			No. of observations															
			At station level			Departure from normal			Dew point			Vapour pressure in mb.			Departure from normal			Mean wind speed, in km, per hour			Wind direction									
			2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28			
Telengana—Contd. Hakimpet	0530	613	1015.8	946.1	..	16.5	14.7	13.5	15.6	83	..	1.7	..	3.9	0	0	21	0	8	11	2	0	0	0	0	10	0			
	0830	"	1017.0	948.0	..	20.0	16.6	14.4	16.5	71	..	2.6	..	8.3	0	0	31	0	3	12	15	1	0	0	0	0	0			
Hanamkonda	1130	"	1015.5	947.5	..	24.5	17.4	12.5	14.1	48	..	3.0	..	12.0	0	2	29	0	6	14	15	0	0	0	0	0	0			
	1730	"	1012.5	944.9	..	25.1	17.2	11.6	14.0	43	..	3.0	..	7.0	0	0	31	1	11	12	7	0	0	0	0	0	0			
Bhadrachallam	0830	269	1017.6	986.6	+0.6	20.5	17.5	15.9	18.0	76	+6	1.0	-1.2	2.2	0	0	19	8	1	0	1	5	3	0	1	12	0			
	1730	"	1013.6	983.5	..	26.9	19.1	13.6	15.8	46	..	2.3	..	4.0	0	0	30	2	24	3	0	0	0	1	0	0	0			
Khammarath	0830	111	1018.0	1005.2	..	21.9	19.0	17.2	19.6	74	..	3.2	..	4.1	0	0	31	3	22	4	2	0	0	0	0	0	0			
	1730	"	1013.5	1001.0	..	27.4	20.8	16.9	19.3	53	..	2.4	..	1.5	0	0	13	11	0	1	0	0	0	0	1	18	0			
Rayalaseema	0830	112	1017.6	1004.6	..	20.9	18.8	17.4	20.0	81	..	2.8	..	3.1	0	0	23	5	5	13	0	0	0	0	0	0	8	0		
	1730	"	1013.2	1000.6	..	27.4	19.8	14.9	16.9	47	..	2.8	..	3.1	0	0	23	5	5	13	0	0	0	0	0	0	0	0		
Arogavaram	0830	701	1016.7	938.0	..	19.3	17.7	16.8	18.8	85	..	4.2	..	1.4	0	0	13	2	7	1	2	1	0	0	0	0	18	0		
	1730	"	1012.4	935.0	..	22.8	18.6	15.9	18.4	66	..	5.2	..	3.6	0	0	29	0	21	8	0	0	0	0	0	2	0			
Cuddapah	0830	130	1017.0	1002.1	+1.4	24.2	21.6	20.1	23.6	79	+3	2.4	-0.5	0.8	0	0	4	0	0	4	0	0	0	0	0	0	27	0		
	1730	"	1013.0	998.2	..	26.4	22.3	20.1	23.6	69	..	2.7	..	7.5	0	0	28	0	3	25	0	10	0	0	0	0	0	19	0	
Anantapur	0530	350	1014.2	974.1	..	19.3	18.0	17.2	19.6	88	..	3.0	..	1.8	0	0	12	0	0	9	3	10	0	0	0	0	0	18	0	
	0830	"	1016.1	976.3	..	21.9	19.3	17.7	20.3	77	..	3.2	..	11.0	0	0	30	0	5	25	0	10	0	0	0	0	0	1	0	
Kurnool	1130	"	1014.9	975.7	..	26.0	20.0	16.2	18.5	55	..	3.6	..	12.0	0	1	30	0	4	26	1	0	0	0	0	0	0	0		
	1730	"	1011.5	972.5	..	27.3	20.1	15.4	17.6	49	..	2.3	..	9.6	0	0	19	0	1	20	8	0	0	0	0	0	0	2	0	
Kurnool	0830	281	1017.1	984.9	+1.3	21.8	19.1	17.6	19.6	77	+6	2.9	+1.1	4.9	0	0	29	0	23	1	4	0	1	0	0	0	0	8	0	
	1730	"	1012.1	980.8	..	28.9	20.6	15.4	17.4	44	..	3.6	..	4.1	0	0	23	0	12	9	2	0	0	0	0	0	0	0	0	
Madras State	0830	51	1014.7	1008.9	..	26.0	22.4	20.4	24.1	71	..	5.5	..	10.5	0	0	31	27	0	0	0	0	0	0	0	4	0	0		
	1730	"	1010.7	1005.0	..	28.9	22.7	19.2	22.5	56	..	5.2	..	11.6	0	1	30	7	11	12	1	0	0	0	0	0	0	0	0	
Tuticorin	0830	4	1014.8	1004.4	..	26.0	23.3	22.0	26.5	78	..	3.0	..	19.9	0	12	19	16	15	0	0	0	0	0	0	0	0	0	0	
	1730	"	1011.1	1010.7	..	27.8	24.5	23.3	28.1	74	..	2.4	..	24.8	0	20	11	0	25	6	0	0	0	0	0	0	0	5	0	
Pamban	0830	11	1014.5	1013.2	+1.2	26.6	24.1	23.0	28.0	81	-4	5.5	+1.7	13.3	0	2	29	14	10	2	0	0	0	0	0	0	0	0	0	
	1730	"	1011.4	1010.1	..	27.0	23.7	22.2	26.9	75	..	4.8	..	16.3	0	5	26	4	27	0	0	0	0	0	0	0	0	6	0	
Mathurai	0830	133	1014.6	999.5	+0.6	25.0	22.3	20.9	24.8	78	+1	5.7	+1.5	9.3	0	0	31	1	24	0	1	0	0	0	0	0	0	0	0	
	1730	"	1010.9	996.0	..	28.2	23.1	20.0	24.1	63	..	6.1	..	3.0	0	0	31	0	30	0	1	0	0	0	0	0	0	0	0	
Mathurai (Acrodrome)	0530	131	1013.5	998.2	..	22.1	21.0	20.4	24.1	90	..	3.8	..	3.6	0	0	28	22	4	2	0	0	0	0	0	0	0	0	0	
	0830	"	1015.1	1000.0	..	25.1	21.8	20.1	23.2	74	..	3.7	..	6.3	0	0	30	5	15	11	0	0	0	0	0	0	0	0	0	
Nagapattinam	1130	"	1014.1	999.0	..	28.5	22.8	19.7	23.0	59	..	4.0	..	9.1	0	0	31	2	12	17	0	0	0	0	0	0	0	0	0	
	1730	"	1011.4	996.4	..	27.8	22.6	19.8	23.0	62	..	4.0	..	9.1	0	0	31	2	12	17	0	0	0	0	0	0	0	0	11	0
Tiruchirapalli	0830	9	1015.1	1014.0	+1.3	25.4	23.0	21.7	26.2	81	0	5.0	0	13.0	0	10	21	9	10	1	0	0	0	0	0	0	0	0	0	
	1730	"	1012.3	1011.2	..	26.7	23.4	21.8	26.1	75	..	5.2	..	22.5	0	17	14	4	26	1	0	0	0	0	0	0	0	0	4	0
Coimbatore	0230	88	1012.9	1002.7	..	22.9	21.4	20.5	24.3	87	..	2.1	..	11.0	0	4	23	3	22	2	0	0	0	0	0	0	0	0	2	0
	0530	"	1013.3	1003.1	..	22.4	21.0	20.3	23.7	88	..	3.1	..	9.5	0	2	23	9	13	1	0	0	0	0	0	0	0	0	3	0
Coimbatore (Peelamedu Aerodrome)	0830	"	1015.3	1005.2	+0.7	24.4	21.8	20.4	24.0	78	-2	4.4	+0.6	14.0	0	2	29	10	16	2	0	0	0	0	0	0	0	0	0	0
	1130	"	1014.3	1004.4	..	27.9	23.0	20.4	22.7	64	..	5.2	..	20.9	0	17	14	5	23	3	0	0	0	0	0	0	0	0	0	0
Salem	1130	"																												

TABLE III.—SUMMARY OF OBSERVATIONS AT FIXED HOURS—DECEMBER, 1958 (AGRAHAYANA 10—PAUSA 10, 1880 SAKA)

Wind direction for complete month

(b) Mean of 29 days

(m) Mean of 18 days

(a) Mean of 30 days.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—DECEMBER, 1958 (AGRAHAYANA 10—PAUSA 10, 1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C.			Cloud amount (Oktas)			Wind speed (Kmtp.h.)			No. of observations													
			At mean sea level or height in g.p.m. of nearest standard barometric level			At station level			Vapour pressure in mb.			Relative humidity %			Departure from normal			Mean wind speed, in km. per hour			Wind direction							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	N	NE	E	SE	S	SW	W	NW	Calm	Variable
Mysore (South) <i>Contd.</i>																												
Balchonnur . . .	0830	..	..	..	..	..	17.5	16.0	14.9	17.0	85	+9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hassan . . .	0830	960	1539.6	909.6	..	..	18.9	16.6	15.1	17.2	79	+4	4.2	+1.0	7.2	0	0	29	0	0	23	6	0	0	0	0	2	0
	1730	..	1519.2	906.4	..	..	24.4	17.4	13.1	14.8	49	..	3.2	..	5.9	0	0	29	0	0	24	5	0	0	0	0	2	0
Mysore . . .	0830	767	1015.6	930.2	+1.1	20.0	17.8	16.4	18.7	80	+6	3.1	-0.3	14.7	0	4	27	0	6	1	2	4	12	0	6	0	0	0
	1730	..	1010.5	926.9	..	..	25.3	18.5	14.2	16.4	51	..	3.3	..	17.3	0	8	22	0	12	10	0	1	2	0	5	1	0
Bangalore (Central Observatory) . . .	0230	921	1516.7	911.8	..	..	17.3	16.3	15.7	17.5	91	..	3.2	..	9.8	0	0	31	0	1	28	2	0	0	0	0	0	0
	0830	,	1540.6	913.9	+1.1	18.9	16.7	15.4	17.4	80	+2	4.3	+0.8	12.1	0	0	31	0	3	25	3	0	0	0	0	0	0	0
	1130	..	1542.9	913.4	..	..	22.9	17.1	14.6	16.8	59	..	4.2	..	13.4	0	0	31	0	4	23	4	0	0	0	0	0	0
	1730	..	1520.9	911.0	..	..	22.9	17.5	14.0	15.0	58	..	4.6	..	11.1	0	0	31	1	4	19	7	0	0	0	0	0	0
Bangalore (Aerodrome) . . .	0530	897	1519.6	914.8	..	..	16.9	16.1	15.5	17.7	92	..	4.0	..	6.2	0	0	19	0	5	14	0	0	0	0	0	12	0
	0830	,	1543.8	916.7	..	..	19.6	17.1	15.6	17.7	78	..	4.8	..	9.5	0	2	20	0	5	17	0	0	0	0	0	9	0
	1130	..	1547.8	916.1	..	..	24.4	18.1	14.2	16.1	53	..	4.7	..	13.5	0	5	22	0	1	26	0	0	0	0	0	4	0
	1730	..	1524.5	913.7	..	..	24.1	18.0	14.0	16.2	54	..	4.8	..	12.0	0	1	28	0	7	22	0	0	0	0	0	2	0
	2330	..	1533.8	915.8	..	..	18.8	17.2	16.2	18.3	85	..	2.3	..	10.5	0	0	26	0	7	19	0	0	0	0	0	5	0
Kerala																												
Kochikode . . .	0530	5	1012.0	1011.5	..	..	23.3	22.2	21.5	25.6	89	..	1.5	..	7.7	0	0	31	1	8	21	1	0	0	0	0	0	0
	0830	,	1013.5	1013.0	+0.6	26.0	22.4	21.1	24.6	72	-5	2.2	-0.5	6.9	0	0	31	0	12	19	0	0	0	0	0	0	0	
	1130	..	1013.1	1012.6	..	..	31.2	24.8	21.8	26.2	58	..	2.5	..	9.0	0	0	31	1	1	0	1	2	16	6	4	0	
	1730	..	1010.2	1009.7	..	..	30.1	24.7	22.0	29.9	63	..	2.5	..	12.2	0	0	31	0	0	0	0	0	1	21	9	0	
	2330	..	1012.8	1012.3	..	..	26.0	23.5	22.3	26.9	80	..	1.3	..	5.5	0	0	30	6	14	4	0	0	1	1	4	1	
Palghat . . .	0830	97	1014.5	1003.4	..	..	26.0	21.9	19.7	23.2	68	..	2.3	..	13.3	0	0	31	0	0	30	1	0	0	0	0	0	0
	1730	..	1010.1	999.3	..	..	30.6	22.8	18.6	22.1	47	..	3.1	..	8.9	0	0	31	0	3	28	0	0	0	0	0	0	0
Fort Cochin . . .	0830	3	1013.4	1013.1	+0.5	27.5	23.4	21.5	25.4	69	-4	5.0	+2.4	7.9	0	0	27	0	15	12	0	0	0	0	0	4	0	
	1730	..	1009.8	1009.5	..	..	28.7	24.2	21.9	26.5	67	..	5.4	..	6.0	0	0	29	0	0	0	0	0	5	18	6	2	
Cochin (Naval Air Station) . . .	0230	3	1011.9	1011.6	..	..	24.6	23.2	22.6	27.1	88	..	2.7	..	2.2	0	0	16	1	2	12	1	0	0	0	0	15	0
	0530	,	1012.0	1011.7	..	..	23.4	22.1	21.5	25.2	89	..	2.8	..	2.1	0	0	13	1	3	7	0	0	0	0	0	2	0
	0830	,	1013.6	1013.3	..	..	26.3	22.4	20.3	23.6	70	..	3.4	..	5.6	0	0	27	0	9	17	1	0	0	0	0	4	0
	1130	..	1013.0	1012.7	..	..	30.0	23.4	20.0	23.3	55	..	3.8	..	6.5	0	0	28	0	5	12	5	1	2	3	0	3	0
	1730	..	1010.6	1010.3	..	..	29.5	24.3	21.7	24.8	63	..	4.5	..	11.4	0	0	30	0	0	0	0	0	4	24	2	1	
	2330	..	1012.7	1012.4	..	..	25.9	23.8	22.9	28.0	84	..	3.0	..	1.4	0	0	11	0	3	3	3	1	1	0	0	20	0
Alleppey . . .	0830	4	1013.0	1012.6	..	..	27.4	24.0	22.4	27.0	74	..	4.0	..	5.3	0	0	31	0	2	16	13	0	0	0	0	0	0
	1730	..	1009.6	1009.2	..	..	29.4	24.9	22.8	27.9	68	..	4.0	..	14.7	0	0	31	2	0	0	0	0	10	19	0	0	
Punalur . . .	0830	34	1013.4	1009.6	..	..	25.1	22.1	21.7	26.1	82	..	2.1	..	1.6	0	0	11	2	2	1	4	0	1	0	1	20	0
	1730	..	1009.4	1005.6	..	..	31.2	26.3	24.1	30.2	67	..	2.8	..	5.3	0	0	27	0	3	12	9	1	2	0	0	4	0
Trivandrum . . .	0230	64	1011.0	1003.7	..	..	24.2	22.7	22.0	26.4	87	..	1.9	..	3.0	0	0	24	6	5	5	4	0	0	0	0	4	7
	0530	,	1011.3	1003.9	..	..	23.6	22.1	21.2	25.4	87	..	1.8	..	3.7	0	0	27	7	13	5	0	0	0	0	2	4	0
	0830	,	1013.0	1005.7	+0.5	25.7	23.2	22.0	26.4	81	+1	3.7	+0.1	3.3	0	0	29	3	15	2	6	1	0	0	2	2	0	
	1130	..	1012.3	1005.1	..	..	30.1	23.7	20.4	24.0	57	..	4.7	..	5.1	0	0	27	3	5	0	1	2	9	4	3	4	
	1730	..	1010.3	1003.0	..	..	28.7	23.8	21.3	25.5	65	..	3.5	..	4.7	0	0	29	0	0	1	0	0	20	5	3	2	
Trivandrum (Aerodrome) . . .	0830	8	1013.1	1012.2	..	..	26.7	23.5	21.2	26.4	76	..	4.0	..	2.5	0	..	19	3	2	3	1	0	3	4	3	12	0
Hill Stations Excluding Kashmir—																												
Walong (R)	0830																											
	1730																											
Kohima . . .	0830	1406	1561.6	865.9</td																								

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—DECEMBER, 1958 (AGRAHAYANA 10—PAUSA 10, 1880 SAKA)

Divisions and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Cloud amount (Oktas)			Wind speed (Km p.h.)			No. of observations																
			At mean sea level or height in g.p.m. of nearest standard isobaric level			At station level			Departure from normal			Relative humidity %			Departure from normal			Mean wind speed, Km. per hour			Wind direction										
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	Calm	Variable		
Hill Stations (excluding Kashmir) —(Contd.)																															
Khatmandu (Hydromet) —Contd.	1130	1324	1535.1	871.5	..	15.5	11.5	7.7	10.7	61	..	3.9	..	0.7	..	..	6	2	..	..	2	1	..	..	1	25	0	
Mukteswar (Kumaon)	1730	"	1514.8	869.5	..	13.2	10.7	8.4	11.1	73	..	3.9	..	2.5	11	3	1	1	1	1	1	5	20	0			
Nainital	0830	2311	3143.0	775.2	+1.2	7.2	3.3	-3.6	5.3	54	+15	1.9	-0.4	8.5	0	2	24	3	1	2	1	0	1	3	12	2	5	0			
Nainital	1730	"	3132.2	773.9	..	7.8	4.9	0.9	7.0	66	..	2.7	..	11.3	0	4	22	0	2	1	0	1	0	0	4	5	20	0			
Joshimath	0830	..	1528.3	807.7	..	7.6	4.3	-0.3	5.9	61	..	2.4	..	1.8	0	0	11	0	0	1	1	0	0	0	4	5	20	0			
Joshimath	1730	"	1508.9	806.2	..	8.9	5.7	1.1	6.9	65	..	4.1	..	6.7	0	0	30	2	0	0	1	2	1	2	21	1	1	0			
Badrinath	0830	7.4	3.3	-3.6	5.0	51	..	3.5	..	7.1	0	0	28	0	0	0	0	1	2	14	7	1	0	1	5		
Badrinath	1730	"	9.5	5.6	-0.4	6.6	55	..	4.0	..	5.6	0	0	30	0	0	0	0	1	2	14	7	1	0	1	5		
Lokpal	0830	-9.4	-11.1	-15.6	1.5	57	..	2.3			
Mussooree	0830	2042	1523.5	798.9	-0.1	8.3	4.9	-0.2	6.6	61	+16	2.9	+0.3	3.3	0	0	26	5	4	0	4	8	3	0	2	5	0				
Mussooree	1730	"	1513.7	797.9	..	8.3	6.5	4.1	8.4	80	..	5.5	..	4.1	0	1	25	2	2	0	5	11	5	1	0	5	0				
Simla	0830	2202	1526.3	783.9	+0.8	8.8	2.7	-7.3	3.6	37	+3	3.3	+0.5	2.5	0	0	25	3	3	1	8	6	1	1	2	6	0				
Simla	1730	"	1516.2	783.1	..	8.1	4.4	1.1	6.1	58	..	4.2	..	3.1	0	0	30	5	7	3	8	4	3	0	0	1	0				
Dalhousie	0830	1959	1479.0	802.7	..	8.5	3.9	-0.7	5.3	47	..	0.5	..	0	0	0	0	0	0	0	0	0	0	0	0	0	31	0			
Dharamshala	0830	1211	1567.9	887.1	..	11.6	8.1	4.3	8.2	61	..	3.5	..	1.2	0	0	9	3	2	1	1	0	1	1	0	22	0				
Dharamshala	1730	"	1561.6	886.2	..	14.6	11.0	7.7	10.4	64	..	5.1	..	3.2	0	0	30	0	0	0	3	0	4	20	3	0	1	0			
Abu	0830	1195	1536.3	885.5	+0.7	13.5	10.5	7.5	10.3	68	+24	1.2	-0.2	1.1	0	0	5	1	2	0	0	1	0	0	1	26	0				
Abu	1730	"	1534.3	884.7	..	17.7	12.7	8.0	11.1	54	..	0.4	..	0.6	0	0	3	1	1	0	0	0	0	1	0	28	0				
Pachmarhi	0830	1075	1547.4	899.4	+1.1	12.3	10.8	9.3	12.0	83	+21	1.7	0	1.4	0	0	10	0	4	1	0	1	1	2	21	0					
Pachmarhi	1730	"	1537.5	897.1	..	20.1	14.8	11.2	12.9	58	..	2.0	..	1.7	0	0	16	2	5	1	0	0	1	1	6	15	0				
Maghabaleshwar	0830	1382	1544.2	866.6	+1.3	16.2	12.6	9.3	11.9	65	+10	2.0	+0.6	11.3	0	0	31	0	1	10	17	1	1	0	1	0	0				
Maghabaleshwar	1730	"	1525.4	864.5	..	19.5	14.6	10.9	13.0	58	..	2.5	..	5.6	0	0	29	2	2	11	4	0	3	2	5	2	0				
Nandi Hills	0830	..	..	..	..	16.7	16.7	16.7	19.0	100	..	8.0	..	4.0	0	0	28	8	16	4	2	1	0	0	0	0	0	
Mercara	0830	1152	1530.6	888.8	+1.4	16.5	15.5	14.6	16.9	89	+6	4.5	+0.3	7.9	0	0	31	1	15	15	0	0	0	0	0	1	0				
Kodaikanal	0530	2343	3140.2	771.6	..	9.0	8.0	6.6	10.1	88	..	4.8	..	6.0	0	0	24	6	5	8	3	0	0	0	0	2	7	0			
Kodaikanal	0830	..	3166.5	773.4	+1.7	11.5	9.7	7.7	10.9	81	+17	4.5	+1.0	9.5	0	1	27	4	7	6	10	0	0	0	0	1	3	0			
Ootacamund	0830	2249	1532.2	781.5	+1.1	12.3	9.3	6.5	9.8	70	+6	1.9	-1.1	2.0	0	0	8	0	8	0	0	0	0	0	0	0	23	0			
Ootacamund	1730	"	1510.6	780.0	..	14.1	11.9	10.0	12.5	79	..	4.5	..	1.6	0	0	7	2	2	1	2	0	0	0	0	0	24	0			
Coonoor	0830	1747	1528.6	828.9	..	14.9	12.9	11.6	13.9	81	+9	3.9	-0.3	2.5	0	0	20	3	1	4	5	2	1	0	4	11	0				
Sikkim Lachen	0830	5.7	3.6	0.6	6.4	70			
Tibet Yatung (Chumbi) (R)	0830	3685	3143.5	654.9	..	-1.1	-2.4	-4.5	4.3	76	..	0.5	..	3.9	0	3	28	0	12	2	10	1	2	0	1	3	0				
Ceylon Colombo	0830	7	1013.1	1012.3	+0.7	25.4	22.0	20.3	23.8	75	-11	4.0	-0.4	10.3	0	0	30	9	18	2	0	0	1	0	0	1	0				
Trincomalee	0830	3	1013.8	1013.4	+1.8	26.4	23.2	21.7	25.9	75	-10	5.4	+0.6	18.5	0	15	16	13	16	1	0	0	0	0	1	0	0				
Batticaloa	0830	..	1011.2	1010.9	..	26.8	23.4	21.9	26.3	75	..	5.6	..	21.2	0	18	13	13	17	1	0	0	0	0	1	11	6	1			
Hambantota	0830	15	1012.9	1011.2	+1.5	26.3	23.1	21.6	25.8	76	-11	3.7	0	20.5	0	16	15	4	25	2	0	0	0	0	0	0	0				
Mannar	0830	4	1014.4	1013.9	..	26.2	23.8	22.4	27.1	80	..	4.2	..	11.9	0	1	30	3	25	3	0	0	0	0	0	0	0	0			
Mannar	1730	"	1011.3	1010.9	..	27.4	23.6	21.6	26.0	70	..	5.0	..	17.3	0	11	20	7	23	1	0	0	0	0	0	0	0	0			
Hydrometeorological Observatories Damodar Catchment	0830	242	1019.3	990.9	..	16.0	13.6	11.4	13.6	73	..	1.7	..	2.3	0	0	20	2	0	0	0	0	0	11	6	11	1				
Bokaro	1730	"	1014.9	986.6	..	19.7	16.1	13.1	15.3	67	..	2.6	..	4.7	0	0	31	13	6	0	0	0	0	0	11	0	1				
Hazaribagh	0830	615	1018.1	948.0	..	17.3	12.1	6.7	10.0	50	..	0.6	..	3.3	0	0	17	0	0	0	0	0	2	2	9	4	14	0			
Hazaribagh	1730	"	1012.4	942.4	..	17.3	11.9	6.2	10.1																						

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—DECEMBER, 1958 (AGRAHAYANA 10—PAUSA 10, 1880 SAKA)

Division and station	Hour of observation I. S. T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mb	Relative humidity %	Departure from normal	Cloud amount (Octas)	Wind speed (Km.p.h.)	No. of observations														
			At station level	Departure from normal	Dry bulb	Wet bulb	Dew point	N						NE	E	SE	S	SW	W	NW	Calm	Variable						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
Hydrometeorological Observatories—(Contd.)																												
Damodar Catchment																												
Contd. Ramarh—Contd.	1730	..	..	..	..	20.3	15.9	12.3	14.5	61	..	0.8	..	0.6	0	0	5	2	0	0	0	0	3	0	26	0	
Panchet Hills	0830	..	..	..	..	19.7	17.9	16.8	19.1	83	..	1.8	..	3.3	0	0	31	7	3	0	0	0	15	4	2	0	
Durgapur	1730	..	..	..	..	21.9	20.9	20.3	23.9	91	..	2.0	..	3.3	0	0	30	15	4	0	1	0	2	3	5	1	0
Durgapur	0830	..	..	..	..	20.2	16.7	14.3	16.3	67	..	0.8	..	8.7	0	0	30	3	4	2	1	0	0	2	18	1	0
Mahanadi Catchment	1730	..	..	..	..	22.8	17.6	13.5	15.7	57	..	0.6	..	5.1	0	0	30	13	4	2	0	1	1	0	9	1	0
Baramul	0830	64	1019.0	1012.1	..	18.6	16.5	14.9	17.0	81	..	1.0	..	6.4	0	0	26	2	9	1	8	4	1	0	1	5	0	
Hirakud	1730	..	1014.9	1007.5	..	21.2	18.8	17.2	19.7	78	..	2.8	..	0.7	0	0	3	1	0	0	0	0	1	0	1	28	0	
Khijrawan	0830	159	1018.9	1000.4	..	20.5	17.2	14.9	17.0	70	..	0.9	..	2.3	0	0	21	3	8	3	0	0	1	2	4	10	0	
Sonepur	1730	..	1014.6	996.5	..	24.0	18.6	14.9	16.9	57	..	0.8	..	1.0	0	0	7	1	0	1	0	0	0	3	2	24	0	
Ginabahar	0830	20.8	16.3	13.1	15.0	63	..	0.8	..	2.1	0	0	22	0	4	7	6	0	0	0	2	3	9	0
Bhimkund	0830	..	..	..	..	22.4	17.0	12.9	15.0	55	..	1.0	..	1.1	0	0	10	2	3	1	0	0	0	0	4	21	0
Punasa	1730	..	..	..	..	20.6	17.2	15.2	17.0	73	..	..	..	2.3	0	0	21	2	5	2	1	2	2	6	1	10	0
Bagre Tawa	0830	..	..	..	..	16.6	13.6	10.9	12.9	70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Thikri	0830	..	..	..	..	19.3	16.2	14.0	15.9	72	..	3.6	..	3.2	0	0	30	6	9	1	0	0	1	2	11	1	0
Jhadol	0830	..	..	..	..	23.0	17.7	13.4	15.9	55	..	5.2	..	0.7	0	0	7	0	2	1	0	0	4	0	0	24	0
Dhagai	0830	..	..	..	..	18.2	13.7	9.5	12.4	57	..	..	..	0	..	..	..	..	..	..	..	..	..	..	..	..	..
Mukhimpur	1730	..	..	..	..	26.6	17.7	10.9	13.8	38	..	..	..	0	..	..	..	..	..	..	..	..	..	..	..	..	..
Tehri	0830	16.9	13.1	9.4	11.9	62	..	1.0	..	4.0	0	0	0	17	0	7	1	0	1	4	4	0	14	0
Gorkha	1730	..	..	..	..	19.1	15.2	12.6	14.1	63	..	2.4	..	1.9	0	0	12	0	1	5	1	0	5	0	0	19	0
Pokhara	0830	..	..	..	..	19.3	11.0	8.9	11.4	75	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Nawakot	0830	..	..	..	..	17.4	13.5	10.0	12.3	63	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Jomosom	1730	..	..	..	..	26.3	17.5	10.1	12.9	37	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gandak Catchment	1730	..	..	..	..	9.7	5.9	1.6	6.5	57	..	3.6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gandak Catchment	0830	..	..	..	..	10.0	6.7	3.3	7.7	63	..	3.8	..	0.6	0	0	5	0	1	2	0	2	0	0	26	0	
Dailekh	0830	..	..	..	..	9.1	8.6	8.1	10.8	93	..	5.2	..	1.2	0	0	11	2	0	0	2	1	1	5	0	20	0
Butwal	0830	..	..	..	..	16.4	11.9	8.0	10.8	58	..	3.7	..	2.3	0	0	24	1	0	0	11	9	0	3	0	7	0
Bagmati Catchment	1730	..	..	..	..	17.5	13.1	9.6	11.8	61	..	3.8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Katmandu*	0830	..	..	..	..	14.1	12.2	10.9	12.9	80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Okhaldunga	0830	..	..	..	..	14.6	12.4	10.7	12.7	77	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chautara	0830	..	..	..	..	14.4	12.8	11.7	13.5	83	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Timura	0830	..	..	..	..	16.0	14.1	12.7	14.6	80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gogra Catchment	1730	..	..	..	..	14.2	12.9	12.1	13.9	86	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Trans Himalayan Region	0830	..	..	..	..	16.2	13.2	10.7	12.9	70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dandeldhura†	0830	..	..	..	..	9.8	0.7	—3.9	4.6	(c) 56	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Butwal	0830	..	..	..	..	18.0	15.3	13.1	15.1	73	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Katmandu*	1730	..	..	..	..	20.6	17.5	15.6	17.5	76	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chautara	0830	..	..	..	..	10.9	9.5	8.1	11.0	84	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Okhaldunga	1730	..	..	..	..	15.0	10.3	6.1	9.5	56	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1130
1730

*Data included under 'Hill stations'.

(c) Mean of 28 days.

† Data not available.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—DECEMBER, 1958 (AGRAHAYANA 10—PAUSA 10, 1880 SAKA)

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JANUARY-DECEMBER 1958 (1879-1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in mm.	Mean pressure in millibars			Mean temperature in °C			Cloud amount (Octas)			Wind speed (Km.s.p.h.)			No. of observations														
			At mean sea level or height in g.p.m. of nearest standard isobaric level			At station level			Departure from normal			Relative humidity %			Departure from normal			Mean wind speed, kms per hour			Wind direction								
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	Calm	Variable
JANUARY																													
Arabian sea Islands Minicoy	0530	2	1012.2	1012.0	..	23.6	22.4	21.7	26.3	90	..	2.4	..	5.8	0	0	25	10	9	4	1	1	0	0	0	0	6	0	
	0830	"	1014.3	1014.1	+1.4	25.9	23.9	23.1	28.1	84	+10	2.6	-0.3	6.1	0	0	28	10	7	7	3	1	0	0	0	0	3	0	
	1130	"	1014.5	1014.3	..	29.2	25.0	23.0	28.3	69	..	2.9	..	7.9	0	0	31	5	8	12	2	2	0	0	0	0	2	0	
	1730	"	1011.4	1011.2	..	28.4	24.7	23.0	28.5	72	..	3.3	..	8.2	0	0	31	10	9	10	1	1	0	0	0	0	0	0	
	2330	"	1013.7	1013.5	..	25.4	23.5	22.9	27.4	85	..	2.8	..	6.8	0	0	27	8	12	6	1	0	0	0	0	0	4	0	
Amini Divi	0830	4	1014.5	1014.0	..	26.2	24.0	22.9	28.0	82	+9	3.2	+0.3	5.0	0	0	19	13	4	0	1	0	0	0	0	1	12	0	
FEBRUARY																													
Arabian sea Islands Minicoy	0530	2	1011.2	1011.0	..	25.4	23.9	23.1	29.0	88	..	4.6	..	6.0	0	0	24	16	5	1	0	0	1	0	1	4	0		
	0830	"	1013.2	1013.0	+0.3	27.0	24.6	23.6	28.7	82	+8	4.4	+1.6	6.2	0	0	23	11	6	4	0	0	0	1	1	5	0		
	1130	"	1013.3	1013.1	..	29.2	25.5	23.9	29.8	73	..	4.1	..	8.6	0	0	28	12	9	2	0	0	0	1	4	0	0		
	1730	"	1010.3	1010.1	..	28.7	25.2	23.6	29.3	74	..	4.1	..	9.0	0	1	27	14	10	1	0	0	1	0	2	0	0		
	2330	"	1012.5	1012.3	..	25.9	24.2	23.4	28.9	86	..	3.2	..	6.0	0	0	25	14	10	1	0	0	0	0	0	3	0		
Amini Divi	0830	4	1013.4	1012.9	..	27.8	24.1	22.4	27.8	72	-1	3.7	+1.0	10.6	0	0	28	20	2	0	0	0	0	0	0	6	0		
MARCH																													
Arabian sea Islands Minicoy	0530	2	1010.8	1010.6	..	26.2	24.0	23.0	27.8	82	..	3.1	..	5.8	0	0	26	14	2	1	0	0	1	2	6	5	0		
	0830	"	1012.8	1012.6	+0.8	28.5	24.9	23.3	28.5	74	+2	3.0	+0.2	6.5	0	0	28	16	4	0	1	0	0	0	7	3	0		
	1130	"	1013.0	1012.8	..	30.2	25.5	23.5	28.6	67	..	3.2	..	11.5	0	1	30	17	3	2	1	0	0	0	8	0	0		
	1730	"	1009.8	1009.6	..	29.5	25.2	23.3	28.4	69	..	3.1	..	9.5	0	0	30	20	3	0	1	0	0	0	6	1	0		
	2330	"	1012.1	1011.9	..	27.2	24.4	23.1	28.4	78	..	2.1	..	8.0	0	1	28	16	2	2	0	0	0	0	1	8	2		
Amini Divi	0830	4	1013.2	1012.7	..	28.8	25.2	23.5	29.3	74	+1	3.2	+0.7	7.6	0	0	25	14	1	0	0	0	0	0	0	10	6		
APRIL																													
Arabian sea Islands Minicoy	0530	2	1009.1	1008.9	..	26.6	24.6	23.8	29.3	85	..	3.9	..	4.9	0	0	19	6	2	1	0	0	1	0	9	11	0		
	0830	"	1011.1	1010.9	+0.5	29.3	25.8	24.2	30.3	74	+2	4.2	+0.8	6.6	0	1	26	6	6	2	2	0	1	0	10	3	0		
	1130	"	1011.2	1011.0	..	30.9	26.4	24.5	31.1	68	..	4.4	..	7.5	0	0	29	7	3	2	1	0	0	0	11	1	0		
	1730	"	1008.1	1007.9	..	30.3	26.0	24.1	30.1	69	..	4.3	..	7.8	0	0	29	13	4	3	1	0	0	0	8	1	0		
	2330	7	1010.7	1010.5	..	27.7	25.3	24.2	30.3	81	..	3.8	..	5.8	0	0	24	7	3	3	2	1	0	0	2	6	0		
Amini Divi	0830	4	1010.9	1010.5	..	30.5	26.7	25.3	32.0	73	+2	3.8	+0.4	8.8	0	2	24	8	3	0	0	0	0	0	1	14	4		
MAY																													
Arabian sea Islands Minicoy	0530	2	1007.4	1007.2	..	27.7	25.4	24.4	30.6	83	..	7.1	..	13.0	0	2	28	3	0	0	0	0	4	11	12	1	0		
	0830	"	1009.2	1009.0	-0.8	28.8	26.0	24.7	31.4	79	+3	6.8	+2.5	10.6	0	1	30	4	1	0	0	0	1	12	13	0			
	1130	"	1009.6	1009.4	..	30.1	26.8	25.3	31.8	76	..	6.9	..	11.9	0	2	28	4	0	0	0	1	1	8	16	1	0		
	1730	"	1007.1	1006.9	..	29.2	26.1	24.8	31.3	77	..	7.1	..	12.5	0	2	29	2	0	0	0	0	2	14	13	0			
	2330	"	1009.3	1009.1	..	28.6	25.9	24.6	31.3	79	..	6.2	..	13.2	0	1	29	1	0	0	0	0	2	14	13	1			
Amini Divi	0830	4	1008.8	1008.4	..	30.1	27.2	26.3	33.3	80	+7	6.0	+1.4	16.0	0	9	20	1	1	0	0	0	1	1	5	20	2		
JUNE																													
Arabian sea Islands Minicoy	0530	2	1008.2	1008.0	..	27.2	25.2	24.2	30.3	84	..	7.2	..	17.2	0	8	22	0	0	0	0	0	5	23	2	0			
	0830	"	1009.5	1009.3	-0.1	28.2	24.6	24.5	30.7	81	0	7.2	+1.6	14.1	0	4	25	0	0	0	0	0	9	19	1	1			
	1130	"	1009.8	1009.6	..	29.5	26.4	25.1	32.1	77	..	7.3	..	13.6	0	5	25	0	0	0	1	0	6	15	8	0			
	1730	"	1007.5	1007.3	..	28.9	26.0	24.7	31.3	78	..	7.2	..	15.7	0	6	24	0	0	0	0	0	4	25	1	0			
	2330	"	1009.5	1009.3	..	27.8	25.4	24.4	30.5	82	..	6.5	..	16.1	0	5	25	0	0	0	0	0	9	21	0	0			
Amini Divi	0830	4	1008.8	1008.4	..	28.3	26.5	25.7	32.7	85	+3	6.9	0	20.0	0	13	14	2	0	0	0	0	9	11	5	3			
JULY																													
Arabian sea Islands Minicoy	0530	2	1008.6	1008.4	..	27.1	24.7	23.8	29.1	82	..	6.9	..	14.6	0	2	28	0	0	0	0	0	4	22	4	1			
	0830	"	1010.0	1009.8	-0.1	28.3	25.4	24.1	30.0	78	-1	6.4	+1.1	12.9	0	3	28	0	0	0	0	0	3	21	7	0			
	1130	"	1010.3	1010.1	..	29.7	26.0	24.4	30.6	74	..	6.0	..	13.5	0	2	29	0	0	0	0	0	2	21	8	0			
	1730	"	1008.1	1007.9	..	29.0	25.6	24.1	29.9	75	..	6.9	..	15.0	0	4	27	0	0	0	0	0	3	20	8	0			
	2330	"	1010.6	1010.4	..	27.4	24.9	23.9	29.4	81	..	4.3	..	14.1	0	2	29	0	0	0	0	0	3	22	6	0			
Amini Divi	0830	4	1009.0	1008.6	..	28.3	25.8	25.1	31.9	83	0	6.5	+0.2	23.2	0	20	11	0	0	0	0	0	8	20	3	0			
AUGUST																													
Arabian sea Islands Minicoy	0530	2	1008.4	1008.2	..	26.3	24.4	23.5	29.1	85	..	7.3	..	17.2	0	6	25	0	0</										

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JANUARY-DECEMBER 1958 (1879-1880 SAKA)

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres.	Mean pressure in millibars			Mean temperature in °C			Vapour pressure in mbs.			Cloud amount (Octas).			Wind speed (km.p.h.)			No. of observations										
			At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Dry bulb	Wet bulb	Dew point	At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Relative humidity	Departure from normal	Mean amount	Departure from normal	Mean wind speed, km. per hour	62 or more	20 to 61	1 to 19	N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
SEPTEMBER Arabian sea Islands																												
Minicoy . . .	0530	2	1009.5	1009.3	..	26.4	24.3	23.5	28.7	83	..	6.1	..	9.7	0	0	28	1	0	0	0	0	0	12	13	2	0	
	0830	..	1011.3	1011.1	0	27.6	24.8	23.5	29.1	78	-1	5.7	+1.5	9.4	0	0	28	2	0	0	0	0	1	9	16	2	0	
	1130	..	1011.3	1011.1	..	29.1	25.6	24.0	30.0	74	..	5.2	..	9.0	0	6	30	2	0	0	0	0	0	8	20	0	0	
	1730	..	1008.8	1008.6	..	28.5	25.2	23.7	29.4	75	..	6.4	..	10.7	0	0	30	1	0	0	0	0	0	9	20	0	0	
	2330	..	1011.4	1011.2	..	27.0	24.6	23.6	29.0	81	..	6.1	..	10.8	0	0	28	2	0	0	0	0	0	1	7	18	2	0
Amini Divi . . .	0830	4	1010.9	1010.5	..	28.4	25.2	24.1	29.4	77	-4	4.0	-1.0	19.9	0	13	17	3	1	0	0	0	0	1	10	15	0	0
OCTOBER Arabian sea Islands																												
Minicoy . . .	0530	2	1009.4	1009.2	..	26.4	24.3	23.3	28.7	83	..	6.2	..	12.5	0	5	22	3	0	0	0	0	0	0	12	12	4	0
	0830	..	1011.4	1011.2	-0.2	27.7	24.8	23.4	29.0	78	+1	5.4	+1.2	9.1	0	0	28	3	0	0	0	0	0	0	7	18	3	0
	1130	..	1011.5	1011.3	..	29.0	25.6	24.1	30.1	75	..	5.1	..	8.8	0	0	30	2	0	0	0	0	0	0	10	18	1	0
	1730	..	1009.0	1008.8	..	27.5	24.7	23.4	28.9	78	..	6.0	..	9.7	0	0	28	3	0	0	0	0	0	0	8	17	3	0
	2330	..	1011.1	1010.9	..	26.8	24.4	23.4	28.7	82	..	6.0	..	11.1	0	2	25	2	0	1	0	0	0	1	9	14	4	0
Amini Divi . . .	0830	4	1011.0	1010.5	..	28.3	25.8	24.9	31.3	82	+3	5.4	+0.5	19.6	0	14	17	0	0	0	0	0	0	2	6	23	0	0
NOVEMBER Arabian sea Islands																												
Minicoy . . .	0530	2	1010.1	1009.9	..	25.1	23.4	22.7	27.5	87	..	4.7	..	5.2	0	1	16	1	1	0	0	1	3	5	6	13	0	
	0830	..	1012.1	1011.9	+0.3	27.6	24.7	23.3	28.8	78	0	4.4	+0.4	5.1	0	0	23	1	1	2	0	2	2	6	9	7	0	
	1130	..	1012.1	1011.9	..	29.7	25.4	23.5	29.0	70	..	4.6	..	0.9	0	0	24	4	1	2	2	2	1	6	6	6	0	
	1730	..	1009.7	1009.5	..	28.3	24.7	23.1	28.2	74	..	5.4	..	5.9	0	0	21	3	0	0	1	1	0	5	11	9	0	
	2330	..	1011.2	1011.5	..	25.8	23.8	22.9	25.0	85	..	4.1	..	4.4	0	0	15	2	1	1	0	1	1	3	6	15	0	
Amini Divi . . .	0830	4	1011.7	1011.3	..	28.2	25.5	24.3	30.4	80	+5	3.9	0	7.1	0	1	27	2	10	0	2	0	0	3	11	2	0	
DECEMBER Arabian sea Islands																												
Minicoy . . .	0530	2	1011.5	1011.3	..	23.9	22.8	22.3	26.8	91	..	3.7	..	2.8	0	0	15	4	4	5	2	0	0	0	0	16	0	
	0830	..	1013.4	0013.2	+1.0	26.4	24.3	23.3	28.6	83	+9	4.4	+1.1	2.7	0	0	16	4	5	6	1	0	0	0	0	15	0	
	1130	..	1013.3	1013.1	..	29.4	25.2	23.3	28.5	70	..	4.6	..	6.4	0	0	28	7	9	10	0	2	0	0	0	3	0	
	1730	..	1010.6	1010.4	..	28.3	24.6	22.8	27.8	73	..	5.0	..	4.2	0	0	23	6	10	7	0	0	0	0	0	8	0	
	2330	..	1012.7	1012.5	..	15.3	23.4	22.6	28.4	86	..	3.3	..	4.0	0	0	21	2	15	3	1	0	0	0	0	0	10	0
Amini Divi . . .	0830	4	1013.4	1012.9	..	27.5	24.4	22.9	28.0	76	+7	3.3	+0.3	5.1	0	0	26	6	17	0	1	0	0	0	2	5	0	

(C) Mean of 26 days.

**EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C)
AND
HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS
BASED ON DATA UPTO 1958 (1878-1879 SAKA)**

TABLE III (A)—EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AND

Sub-division and station	January			February			March			April			May			June			July		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Bay Islands																					
Maya Bandar	33.9	16.8	13.7	31.7	17.8	17.5	33.9	18.9	9.4	36.1	18.9	67.8	35.0	17.2	184.7	36.1	21.1	213.4	31.7	21.1	112.3
	1953	1957	1955	1956	1954	1953	1955	1953	1953	1953	1953	1953	1952	1952	1955	1952	1958	1955	1956	1954	1954
Long Island	31.7	18.3	32.5	32.2	15.6	47.5	34.3	19.4	2.8	36.1	21.1	100.3	34.9	21.1	186.2	33.3	21.1	209.8	33.3	21.1	111.3
	1958	1953	1954	1958	1953	1957	1958	1955	1954	1953	1956	1953	1957	1955	1955	1957	1955	1955	1953	1956	1953
Port Blair	32.7	16.7	208.3	33.3	17.2	131.1	35.1	17.8	67.1	36.1	20.6	206.8	36.1	20.6	264.9	35.6	19.4	258.3	32.8	18.3	148.6
	1958	1940	1922	1958	1949	1902	1958	1949	1881	1889	1939	1922	1889	1939	1891	1933	1939	1908	1941	1941	1914
Car Nicobar	31.5	16.1	104.1	35.0	16.1	82.5	33.2	16.8	53.3	34.1	19.4	99.6	34.0	21.1	129.0	32.2	21.7	127.0	31.7	21.2	103.4
	1958	1956	1954	1954	1956	1956	1958	1957	1953	1958	1956	1956	1958	1952	1955	1953	1956	1955	1957	1957	1957
Nancowry	33.9	21.7	74.9	33.9	20.0	91.2	35.0	21.1	49.0	36.7	20.6	79.0	36.1	18.9	119.4	32.2	21.1	120.4	31.1	21.7	139.2
	1954	1956	1953	1954	1956	1956	1954	1956	1954	1952	1956	1956	1952	1952	1954	1953	1956	1957	1954	1956	1952
Kondul	30.0	20.6	168.7	30.0	19.4	90.2	31.7	21.7	77.5	32.6	22.2	95.8	35.0	21.7	133.3	31.6	21.7	201.2	33.1	21.1	86.9
	1953	1956	1953	1958	1953	1953	1958	1954	1958	1958	1955	1955	1957	1956	1956	1957	1955	1954	1954	1957	1957
Assam (Including Manipur, Tripura)																					
Pasighat	25.3	10.2	20.1	25.9	9.6	11.9	33.2	15.2	14.7	33.8	18.1	37.3	33.3	18.2	125.2	36.2	22.9	116.9	36.2	22.8	93.2
	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958
Digboi	25.1	5.6	52.3	29.4	7.6	13.4	32.8	10.0	40.1	35.0	13.8	66.0	36.1	17.4	55.6	37.2	20.6	95.8	36.9	21.1	118.4
	1958	1956	1956	1956	1958	1957	1958	1957	1956	1958	1957	1957	1956	1957	1958	1956	1957	1957	1958	1956	1956
Dibrugarh	27.8	5.0	35.6	30.6	4.4	46.5	33.9	6.1	55.9	35.6	12.2	197.1	36.7	16.7	118.1	38.9	15.6	202.2	37.8	20.0	182.0
	1946	1940	1911	1942	1905	1917	1923	1903	1915	1937	1920	1913	1947	1909	1948	1905	1910	1931	1956	1908	1958
Dibrugarh	26.1	3.9	24.6	30.0	6.1	55.9	33.3	8.3	55.1	34.8	13.9	58.7	34.4	16.1	80.4	36.7	20.0	112.8	37.2	21.5	97.4
(Mohanbari Aerodrome).	1952	1953	1956	1952	1953	1954	1958	1957	1955	1958	1954	1954	1956	1957	1958	1953	1955	1951	1952	1957	1958
North Lakhimpur	26.7	2.8	26.9	29.4	5.4	21.3	32.9	8.1	74.2	33.8	14.4	99.6	35.0	17.6	178.3	35.6	20.9	90.7	36.1	20.6	199.9
	1955	1956	1957	1956	1958	1957	1958	1957	1955	1958	1957	1954	1956	1957	1958	1958	1957	1955	1958	1954	1956
Sibsagar	28.9	3.3	43.7	30.6	2.8	42.9	35.6	7.2	113.0	36.1	12.8	148.6	42.8	16.7	188.2	37.8	19.4	189.2	38.9	20.6	218.9
	1942	1917	1945	1942	1905	1892	1945	1917	1892	1937	1912	1913	1945	1893	1931	1881	1907	1903	1883	1909	1929
Jorhat	26.7	6.1	34.0	31.1	8.2	12.5	33.9	8.9	48.3	34.5	15.0	50.8	35.0	16.1	119.9	35.6	20.6	83.3	36.1	21.7	88.9
	1955	1956	1954	1954	1958	1957	1954	1957	1954	1957	1957	1954	1955	1955	1957	1955	1955	1957	1956	1956	1958
Golaghat	26.7	7.2	16.5	30.6	1.1	17.8	35.6	6.6	37.6	35.6	16.1	53.3	37.2	11.1	134.6	36.7	19.9	76.2	36.7	18.3	111.5
	1958	1957	1957	1954	1958	1954	1954	1958	1956	1958	1954	1958	1954	1958	1957	1958	1957	1957	1958	1957	1956
Gohpur	25.4	6.2	14.0	27.1	7.7	21.5	33.2	10.5	2.5	35.4	16.2	32.3	33.8	18.7	..	36.2	22.4	59.0	36.0	22.2	55.0
	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958
Tezpur	27.8	5.6	29.5	31.7	6.1	38.6	36.7	10.0	62.0	38.3	13.3	100.1	38.3	17.2	148.1	36.7	19.4	136.7	36.7	21.7	142.7
	1907	1945	1907	1952	1905	1940	1923	1927	1912	1938	1905	1946	1937	1955	1904	1953	1907	1904	1936	1956	1947
Tezpur (P.B.O.)	27.2	6.1	33.3	31.7	8.3	18.5	35.1	11.1	39.9	37.7	16.1	52.3	35.3	18.3	112.8	36.1	20.6	71.1	36.3	21.7	88.1
	1952	1953	1957	1952	1953	1957	1958	1952	1955	1958	1955	1954	1957	1955	1957	1953	1955	1955	1957	1956	1955
Majbat	..	..	29.7	..	..	14.0	..	..	44.5	..	..	68.6	..	..	97.6	..	..	136.4	..	..	95.5
	..	..	1957	..	..	1957	..	..	1955	..	..	1956	..	..	1957	..	..	1956	..	..	1954
Chaparmukh	28.4	11.1	0	30.1	11.1	6.3	37.2	13.3	5.8	..	..	..	35.6	19.8	29.2	..	..	..	36.2	24.4	74.2
	1958	1958		1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958

X=Highest Maximum Temperature.

N=Lowest Minimum Temperature.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UPTO 1958 (1878-1879 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																	Bay Islands
32.2	20.6	109.7	31.7	20.5	104.9	31.7	20.0	64.8	35.0	21.1	87.6	30.4	19.3	54.9	1952	1952	Maya Bandar.
1953	1953	1956	1955	1958	1954	1955	1955	1957	1953	1954	1953	1957	1958	1953			Long Island.
36.7	21.7	147.3	32.7	21.4	124.7	32.2	21.1	122.2	32.2	20.6	119.1	31.7	17.2	53.9	1952	1952	
1952	1956	1956	1957	1957	1957	1952	1956	1952	1953	1954	1953	1954	1953	1952			Port Blair.
31.7	21.1	173.2	31.7	21.7	178.1	35.6	19.4	153.2	31.7	20.0	147.3	32.2	18.9	295.7	1881	1881	
1932	1952	1934	1888	1954	1904	1906	1912	1926	1957	1949	1901	1896	1958	1937			Car Nicobar.
31.7	21.1	114.6	33.3	20.6	132.6	31.7	21.1	198.4	31.1	19.4	122.2	35.6	16.7	158.8	1952	1952	
1954	1956	1958	1954	1952	1958	1953	1957	1955	1955	1958	1955	1955	1952	1957			Nancowry.
31.7	21.7	115.3	31.7	21.1	77.0	33.9	21.7	57.9	33.3	21.1	83.3	34.4	20.6	87.3	1952	1952	
1953	1956	1956	1951	1956	1955	1953	1954	1952	1953	1955	1955	1953	1954	1957			Kondul.
31.7	21.1	131.0	31.1	21.7	113.0	30.8	22.2	162.6	30.6	21.1	95.5	30.6	21.7	82.3	1952	1952	
1957	1955	1958	1957	1954	1953	1957	1954	1952	1957	1955	1958	1955	1954	1955			
																	Assam (Including Manipur, Tripura).
34.9	20.9	215.6	36.3	20.6	180.3	31.6	18.8	119.4	30.6	13.1	2.5	27.4	8.4	13.8	1958	1958	Pasighat.
1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958			
37.2	21.5	88.9	36.6	21.1	55.9	34.4	15.0	157.5	31.5	11.7	12.9	27.7	7.8	25.4	1956	1956	Digboi.
1956	1958	1957	1958	1958	1957	1956	1957	1956	1958	1956	1958	1956	1957				
37.8	21.1	223.5	36.1	16.1	182.1	36.1	15.0	104.7	32.2	8.9	53.3	28.3	5.6	56.1	1901	1901	Dibrugarh.
1956	1903	1920	1958	1905	1941	1907	1943	1913	1942	1933	1932	1958	1918	1931			
36.7	19.5	98.0	36.1	20.6	140.5	35.0	14.4	78.0	31.7	9.4	31.8	27.8	5.0	22.9	1951	1951	Dibrugarh.
																	(Mohanbari Aerodrome).
1953	1958	1952	1951	1954	1954	1955	1957	1953	1952	1953	1957	1951	1955	1951			
36.7	21.7	111.2	36.1	21.7	155.2	35.0	10.6	115.1	31.7	10.0	45.7	28.3	3.3	23.6	1954	1954	North Lakhimpur.
1957	1958	1958	1954	1956	1954	1955	1955	1956	1954	1954	1957	1954	1955	1954			
37.8	18.3	154.4	36.4	19.4	182.4	35.6	15.0	99.6	32.2	9.4	53.9	28.9	4.4	36.3	1881	1871	Sibsagar.
1931	1944	1929	1958	1890	1902	1938	1938	1925	1896	1928	1930	1958	1916	1936			
37.2	22.2	68.3	36.1	22.2	82.8	35.6	15.6	56.1	30.6	10.0	20.1	27.9	5.0	14.7	1951	1951	Jorhat.
1955	1956	1955	1955	1957	1958	1955	1957	1956	1958	1953	1955	1958	1954	1958			
36.7	17.2	92.2	36.7	22.2	96.0	34.4	17.8	50.5	31.7	8.8	36.3	28.9	7.8	25.4	1954	1954	Golaghat.
1957	1957	1956	1958	1954	1958	1956	1954	1955	1958	1957	1955	1958	1956	1957			
34.3	21.6	58.6	36.0	22.6	50.0	34.3	16.8	86.1	31.6	11.1	0	26.0	7.7	40.4	1958	1958	Gohpur.
1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958			
37.2	21.1	166.6	36.7	21.1	102.9	36.1	15.6	140.7	33.3	10.6	59.9	28.9	6.7	19.3	1901	1901	Tezpur.
1953	1945	1952	1909	1915	1917	1956	1941	1909	1952	1953	1901	1958	1925	1907			
36.7	22.9	149.6	36.1	21.7	121.7	35.0	17.2	112.8	31.1	11.7	41.1	28.3	7.2	19.1	1951	1951	Tezpur (P.B.O.).
1953	1958	1952	1953	1953	1953	1956	1957	1952	1952	1953	1951	1951	1955	1953			
..	..	115.4	..	..	69.6	..	..	70.6	..	..	39.2	..	..	27.9	..	1954	Majbat.
..	..	1957	..	..	1956	..	..	1955	..	..	1958	..	..	1956			
..	..	..	37.3	24.3	32.5	35.4	23.6	18.3	33.3	16.1	10.2	30.0	10.5	8.1	1958	1958	Chaparmukh.
..	..	..	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958			

R=Heaviest Rainfall in 24 hours ending at 0830 hrs. I.S.T.

...= Information not available.

TABLE III (A) — EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AND

Sub-division and station	January			February			March			April			May			June			July			
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	
Assam (Including Manipur, Tripura) —(contd.)																						
Tangla . . .	28.2	8.2	31.0	28.6	8.6	29.3	35.4	12.7	48.3	35.8	18.2	80.5	34.6	19.3	63.0	35.7	22.1	120.9	35.7	22.6	81.5	
	1958	1958	1957	1958	1958	1957	1958	1958	1955	1958	1958	1954	1958	1958	1958	1956	1958	1958	1958	1955	1955	
Gauhati . . .	28.9	5.0	41.1	35.0	6.1	53.3	38.3	6.1	56.1	40.0	12.8	75.7	38.3	16.1	185.4	36.7	18.9	194.3	37.2	20.6	232.9	
	1955	1925	1945	1951	1932	1914	1909	1906	1915	1939	1907	1955	1937	1955	1941	1952	1955	1956	1914	1955	1933	
Gauhati (Biorijor Aerodrome)	28.4	5.6	39.1	32.2	6.1	16.5	37.2	10.3	49.8	38.9	14.4	100.3	37.7	17.2	96.8	36.7	21.1	173.7	35.6	21.9	102.9	
	1958	1953	1957	1956	1951	1957	1954	1957	1955	1957	1952	1955	1957	1955	1958	1952	1955	1953	1951	1958	1951	
Rangiya . . .	27.3	..	5.1	28.9	..	35.6	35.9	..	6.3	36.2	..	40.6	34.7	..	60.5	35.6	..	121.9	35.3	23.3	56.3	
	1958	..	1958	1958	..	1958	1958	..	1958	1958	..	1958	1958	..	1958	1958	..	1958	1958	1958	1958	
Goalpara . . .	27.2	6.1	72.4	31.7	7.2	31.7	37.6	10.2	29.0	39.9	14.6	91.4	37.6	16.7	141.7	36.7	16.1	137.2	35.6	22.1	195.8	
	1955	1955	1957	1956	1956	1958	1958	1957	1955	1958	1957	1956	1957	1955	1954	1957	1955	1957	1956	1958	1955	
Dhubri . . .	29.4	6.1	54.1	32.2	2.8	59.9	38.3	10.0	107.9	41.1	12.2	197.6	40.0	15.9	226.3	35.6	13.9	368.3	35.0	22.2	285.7	
	1953	1905	1945	1901	1905	1904	1909	1906	1885	1939	1905	1948	1909	1957	1944	1940	1953	1909	1933	1951	1908	
Dhubri (Rupri Aerodrome)	26.8	7.6	55.4	29.2	6.4	24.9	37.8	11.1	23.9	40.2	15.0	85.6	38.3	17.1	75.9	34.3	20.4	149.8	34.2	23.5	160.0	
	1958	1957	1957	1958	1958	1958	1958	1957	1958	1957	1957	1958	1957	1958	1958	1958	1958	1958	1957	1957	1957	
Tura . . .	27.2	7.2	7.4	31.7	10.0	32.3	37.2	12.2	45.0	38.3	15.6	101.1	37.2	16.7	193.3	33.9	18.9	167.4	33.9	21.7	229.1	
	1954	1953	1953	1956	1956	1954	1958	1952	1955	1952	1951	1952	1951	1952	1952	1952	1955	1956	1951	1956	1951	
Agartala . . .	29.9	3.9	50.1	33.9	6.1	45.0	38.9	10.0	46.0	40.0	16.1	141.2	37.4	16.1	123.4	36.3	21.1	196.6	34.8	22.2	136.9	
	1958	1955	1957	1953	1956	1958	1958	1957	1955	1956	1955	1955	1957	1955	1956	1958	1955	1956	1958	1958	1954	
Kailashar (C.W.O.)*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Silchar . . .	30.0	5.6	100.1	32.8	5.0	90.4	37.8	8.3	245.4	39.4	13.9	165.1	38.9	15.6	290.3	37.8	20.0	227.3	39.4	21.1	234.7	
	1946	1899	1911	1952	1905	1927	1901	1927	1922	1937	1935	1934	1937	1886	1893	1900	1921	1913	1896	1897	1915	
Silchar . . .	28.4	10.4	20.8	29.0	9.1	27.4	37.2	14.4	2.6	36.3	17.6	43.0	34.6	17.9	144.6	35.0	22.3	123.4	35.4	23.5	100.4	
(Kumbhigram Aerodrome)	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	
Imphal . . .	24.4	-1.7	30.5	27.2	-1.1	14.5	32.3	3.3	27.4	34.4	9.2	61.2	32.8	13.9	120.1	36.6	18.1	69.1	32.2	19.4	76.5	
	1955	1954	1957	1956	1955	1957	1958	1954	1955	1958	1957	1955	1955	1955	1956	1958	1958	1957	1956	1956	1954	
Haflong . . .	24.6	7.2	48.0	27.8	8.1	65.8	33.3	10.7	34.5	32.1	12.6	164.1	35.6	14.9	248.2	32.2	18.3	120.7	31.6	18.9	99.8	
	1958	1956	1957	1956	1957	1954	1958	1957	1955	1958	1958	1955	1956	1958	1953	1955	1958	1955	1956	1956	1956	
Lumding . . .	28.8	3.9	27.7	33.9	4.4	34.5	38.3	8.4	30.2	39.6	10.6	34.8	40.0	17.2	110.2	37.8	20.0	135.6	37.6	17.8	114.3	
	1958	1956	1957	1952	1956	1957	1958	1957	1956	1957	1951	1956	1954	1955	1956	1958	1953	1957	1958	1955	1956	
Sub-Himalayan West Bengal																						
Cooch Behar (C.W.O.)	27.8	3.9	34.0	31.1	5.9	16.3	37.3	10.0	27.7	39.4	13.9	74.2	39.1	16.7	134.4	35.6	19.4	286.2	35.0	23.8	259.1	
	1954	1955	1957	1954	1958	1954	1958	1958	1958	1954	1955	1958	1957	1955	1954	1953	1955	1957	1954	1953	1954	
Jalpaiguri . . .	28.9	5.0	37.6	31.1	2.2	71.9	36.1	7.8	68.6	40.0	10.6	152.4	39.4	16.1	161.0	37.2	17.0	224.9	37.2	22.2	390.4	
	1931	1937	1889	1931	1905	1914	1945	1906	1926	1932	1905	1945	1899	1910	1938	1927	1957	1903	1933	1949	1892	
Bagdogra . . .	28.9	3.9	37.1	31.7	5.0	3.8	36.7	9.4	43.7	41.7	12.2	86.1	39.4	13.9	137.7	36.7	21.1	175.4	36.7	21.7	187.5	
	1954	1955	1954	1955	1956	1952	1954	1957	1956	1952	1951	1952	1957	1955	1956	1952	1957	1958	1951	1956	1957	
Malda . . .	29.4	4.4	69.1	33.9	3.9	45.0	41.7	7.2	53.9	43.3	11.1	63.0	45.0	18.3	195.1	44.4	20.0	167.9	37.8	21.1	191.8	
	1958	1937	1957	1952	1905	1942	1941	1898	1926	1956	1953	1892	1958	1945	1938	1958	1955	1945	1897	1906	1958	
Gangetic West Bengal																						
Dum Dum . . .	31.7	7.8	27.2	35.6	8.9	17.0	40.6	12.2	22.9	42.8	18.1	53.1	42.9	19.4	27.4	41.8	21.7	129.0	35.2	22.5	137.2	
	1958	1954	1957	1952	1956	1957	1955	1957	1956	1954	1957	1955	1958	1952	1951	1957	1953	1956	1958	1957	1958	

X = Highest Maximum Temperature.

N = Lowest Minimum Temperature.

* Observatory started from July, 1958.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UPTO 1958 (1878-1879 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station	
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall		
35.1	22.8	106.4	36.6	22.9	67.6	34.3	17.8	69.8	31.9	12.1	86.4	28.9	8.0	20.6	1958	1954	Assam (Including Manipur, Tripura)—(contd.)	
1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1956	1958	1958	1954	1954	1954	Tangla.	
37.8	21.1	187.7	37.2	20.0	133.9	35.6	15.6	93.2	32.2	10.6	36.8	29.4	5.0	21.3	1906	1906	Gauhati.	
1933	1955	1938	1928	1955	1949	1955	1921	1951	1950	1926	1924	1955	1918	1957	1906	1906	Gauhati.	
36.1	22.8	87.6	35.9	21.7	89.7	34.4	15.2	60.2	32.5	11.1	19.8	30.9	7.2	16.5	1951	1951	(Bhorjor Aerodrome).	
1953	1955	1954	1957	1956	1953	1955	1957	1951	1957	1954	1956	1957	1955	1952	1952	1952	Rangiya.	
34.8	22.3	56.0	36.8	22.9	73.0	34.8	19.1	34.2	31.7	15.2	10.0	28.6	10.5	2.0	1958	1958	Goalpara.	
1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	Dhubri.	
37.8	21.4	104.9	36.6	18.3	221.7	36.1	16.1	75.6	32.6	12.2	25.9	31.1	7.2	19.6	1954	1954	(Rupri Aerodrome).	
1957	1957	1957	1958	1955	1958	1956	1954	1958	1958	1954	1956	1955	1955	1955	1955	1955	Tura.	
35.6	21.7	196.9	35.0	21.7	254.0	33.9	17.2	155.2	31.1	11.7	82.5	27.8	7.8	17.3	1891	1881	Agartala.	
1942	1957	1924	1906	1930	1911	1956	1902	1919	1905	1903	1952	1944	1922	1894	1894	1894	Kailashar (C.W.O.)*	
36.1	15.1	195.8	34.8	21.7	201.8	33.4	15.6	220.0	31.4	13.8	3.8	28.2	8.6	0.4	1957	1957	Silchar.	
1957	1957	1957	1958	1957	1958	1958	1957	1958	1958	1958	1957	1958	1958	1958	1958	1958	(Kumbhigram Aerodrome).	
35.6	21.7	284.7	37.2	20.6	127.5	32.8	15.6	164.3	32.8	12.2	39.4	30.6	10.1	5.3	1951	1951	Imphal.	
1957	1955	1956	1958	1956	1955	1955	1954	1953	1952	1951	1952	1951	1958	1956	1956	1956	Haflong.	
36.4	22.8	238.8	35.0	21.7	115.6	35.0	14.9	82.8	32.8	10.6	104.7	30.0	7.2	10.9	1953	1953	Lumding.	
1957	1955	1955	1954	1956	1956	1955	1957	1956	1955	1953	1955	1953	1955	1956	1956	1956	Sub-Himalayan West Bengal.	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Cooch Behar (C.W.O.).
38.3	19.4	154.9	38.3	18.9	178.6	36.7	15.6	186.2	35.0	10.6	174.2	31.7	6.1	100.8	1881	1881	Jalpaiguri.	
1900	1906	1890	1887	1890	1939	1944	1914	1912	1900	1902	1955	1945	1913	1883	1883	1883	Bagdogra.	
36.9	22.9	66.8	36.6	22.2	106.7	36.2	19.3	61.0	32.4	14.4	9.2	30.2	10.0	4.3	1958	1958	Malda.	
1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	Gangetic West Bengal	
32.9	18.9	64.5	32.2	16.1	66.3	31.7	9.2	53.4	28.3	5.4	46.0	24.2	—0.6	6.3	1954	1954	Dum Dum.	
1957	1955	1957	1955	1956	1958	1955	1957	1958	1955	1958	1955	1958	1955	1955	1955	1955	1955	
33.2	19.8	100.3	32.2	18.8	85.3	31.1	13.2	222.0	27.1	11.1	234.2	25.6	8.0	35.6	1954	1954	1954	
1957	1958	1954	1954	1957	1957	1956	1957	1954	1958	1954	1955	1958	1958	1954	1954	1954	1954	
38.3	21.1	118.9	37.2	20.0	91.7	35.0	14.7	107.9	32.2	9.4	101.6	28.8	6.1	21.1	1951	1951	1951	
1953	1956	1952	1951	1953	1954	1956	1957	1952	1951	1953	1955	1958	1955	1957	1957	1957	1957	
36.3	22.8	315.5	35.6	22.2	244.1	35.0	15.1	77.5	31.4	11.1	0	29.4	6.7	23.8	1953	1953	1953	
1957	1954	1957	1953	1954	1953	1955	1957	1958	1958	1953	1953	1954	1954	1958	1958	1958	1958	
37.2	21.1	220.8	36.1	21.1	347.7	35.6	15.6	244.3	33.3	9.4	92.7	30.0	5.6	53.9	1891	1886	1886	
1933	1918	1958	1933	1944	1886	1926	1947	1909	1952	1914	1924	1951	1918	1932	1932	1932	1932	
36.7	22.1	233.2	39.2	20.6	148.3	33.9	13.3	91.4	33.3	8.9	20.3	31.1	4.4	5.3	1951	1951	1951	
1957	1957	1958	1956	1956	1953	1956	1955	1956	1952	1953	1952	1951	1955	1956	1956	1956	1956	
36.7	22.8	188.0	36.1	21.7	215.9	35.6	15.0	173.7	33.3	8.3	64.3	29.4	5.0	32.8	1896	1886	1886	
1957	1948	1918	1896	1940	1953	1932	1908	1894	1896	1934	1930	1951	1896	1913	1913	1913	1913	
35.5	23.6	83.3	35.6	23.3	214.4	35.9	16.7	57.7	33.9	12.2	40.9	30.6	9.8	15.2	1951	1951	1951	
1957	1958	1954	1957	1952	1956	1957	1954	1952	1952	1954	1951	1954	1958	1954	1954	1954	1954	

R=Heaviest Rainfall in 24 hours ending at 0830 hrs. I.S.T.

...=Information not available.

TABLE III (A)—EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AND

Sub-division and station	January			February			March			April			May			June			July			
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	
Gangetic West Bengal—(contd.)																						
Calcutta . .	31·9	6·7	46·7	36·7	7·2	80·8	41·1	10·0	69·9	43·3	16·1	107·4	43·7	18·3	156·2	43·9	21·1	303·5	36·7	22·8	183·6	
	1958	1899	1943	1952	1950	1906	1941	1898	1907	1954	1905	1918	1958	1887	1893	1924	1900	1908	1920	1940	1905	
Barrackpore . .	31·1	9·4	39·9	32·8	9·4	20·1	40·1	11·0	4·3	40·8	17·3	35·0	42·9	22·8	18·3	43·3	19·9	36·2	35·6	21·7	48·0	
	1958	1958	1957	1958	1957	1957	1958	1957	1957	1957	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1957	
Saugor Island . .	30·6	7·8	41·4	33·9	7·2	77·0	38·3	12·2	125·7	39·4	17·2	78·7	38·3	17·8	202·7	40·0	19·4	359·2	36·1	21·7	354·1	
	1931	1899	1948	1952	1950	1885	1934	1906	1907	1908	1942	1921	1908	1893	1932	1929	1925	1927	1920	1954	1913	
Sandheads . .	..	..	33·0	..	..	65·3	..	..	62·7	..	..	72·6	..	..	87·9	..	..	334·0	..	..	290·8
	..	..	1944	..	..	1958	..	..	1940	..	..	1911	..	..	1950	..	..	1940	..	..	1921
Contai . .	31·7	9·4	20·8	37·2	10·0	29·0	40·1	14·7	23·4	40·6	20·0	23·1	39·1	17·2	109·2	38·8	21·1	207·5	34·4	21·7	128·5	
	1958	1955	1953	1951	1953	1954	1958	1957	1951	1952	1956	1952	1957	1951	1956	1957	1952	1956	1954	1952	1957	
Midnapore . .	32·8	6·1	54·6	37·2	5·6	66·0	42·8	11·1	79·5	45·6	17·2	78·2	46·7	19·4	145·3	47·2	20·0	276·9	37·2	22·2	160·8	
	1946	1934	1957	1922	1950	1931	1953	1925	1920	1938	1953	1949	1943	1950	1956	1942	1950	1950	1926	1943	1929	
Purulia . .	31·1	7·8	12·7	35·0	7·2	22·9	41·7	13·5	35·3	43·9	16·1	26·4	45·6	20·0	28·5	45·6	20·6	61·5	36·7	17·8	148·3	
	1958	1954	1953	1952	1956	1956	1955	1957	1956	1954	1955	1952	1955	1952	1954	1953	1956	1958	1953	1951		
Bankura . .	..	..	33·0	..	..	18·3	..	..	33·5	..	..	38·9	..	..	45·2	..	..	60·7	..	..	86·9
	..	..	1957	..	..	1953	..	..	1956	..	..	1952	..	..	1958	..	..	1957	..	..	1957
Burdwan . .	36·7	6·1	43·7	37·8	4·4	84·1	41·7	10·0	115·8	45·0	16·1	116·8	46·1	18·3	244·3	45·6	20·0	175·3	38·9	20·0	299·2	
	1951	1934	1944	1896	1905	1938	1941	1928	1887	1897	1886	1909	1916	1882	1893	1926	1953	1928	1897	1953	1905	
Krishnagar . .	34·4	3·9	51·8	37·8	3·9	73·7	42·2	7·8	87·4	45·0	13·9	114·5	46·1	16·7	138·4	45·1	20·0	209·8	37·2	22·2	244·3	
	1912	1934	1898	1896	1886	1943	1941	1898	1886	1954	1886	1946	1958	1893	1918	1958	1907	1890	1949	1955	1905	
Asansol . .	31·7	5·6	51·6	36·1	5·0	43·4	41·7	11·1	44·2	45·0	16·1	46·7	47·2	18·3	127·0	47·2	20·6	174·5	40·0	19·4	269·7	
	1958	1934	1944	1952	1950	1927	1941	1923	1949	1954	1950	1945	1944	1927	1938	1926	1922	1957	1926	1947	1943	
Suri . .	31·1	6·7	132·3	33·3	8·3	14·2	41·1	12·7	22·3	44·4	17·8	20·1	46·1	19·4	24·6	45·4	20·0	73·7	38·2	22·2	131·8	
	1955	1956	1957	1955	1956	1957	1955	1957	1956	1956	1955	1955	1958	1956	1955	1958	1955	1956	1958	1955	1955	
Berhampore . .	31·2	3·9	69·6	36·7	5·0	60·7	42·2	8·9	62·2	45·0	15·6	54·6	46·1	16·7	155·7	44·4	19·4	202·4	38·3	22·2	221·0	
	1958	1933	1957	1926	1950	1937	1941	1898	1887	1954	1936	1893	1916	1882	1915	1953	1884	1898	1897	1955	1900	
Orissa																						
Baripada . .	33·8	..	12·2	36·1	..	46·3	41·6	..	33·5	44·6	..	28·0	46·9	..	45·5	47·8	..	181·1	35·2	..	99·8	
	1958	..	1958	1956	..	1957	1958	..	1956	1957	..	1958	1958	..	1956	1958	..	1956	1958	..	1958	
Balasore . .	33·3	7·2	85·1	38·3	6·7	76·2	40·6	11·7	70·4	45·0	16·7	71·4	46·7	19·4	221·5	46·1	20·0	217·2	38·3	20·0	347·2	
	1958	1934	1908	1934	1905	1923	1955	1927	1897	1892	1905	1947	1895	1893	1887	1926	1900	1956	1897	1913	1940	
Chandbali . .	32·8	8·3	35·1	37·8	10·0	36·3	40·6	13·9	41·1	43·3	17·2	52·3	43·9	17·8	186·4	46·7	18·3	164·3	36·7	21·7	321·8	
	1950	1934	1948	1934	1942	1940	1954	1952	1940	1947	1943	1944	1942	1931	1936	1942	1931	1936	1929	1946	1941	
Cuttack . .	35·6	7·8	61·0	38·9	10·6	98·0	42·8	14·4	99·1	43·9	17·2	94·5	47·7	20·6	142·7	47·2	21·7	205·7	40·0	21·1	210·8	
	1882	1923	1919	1896	1934	1917	1902	1906	1911	1954	1905	1899	1957	1946	1893	1948	1955	1925	1897	1943	1943	
Bhubaneswar . .	33·6	9·4	35·6	37·2	10·6	52·6	40·6	16·1	25·4	43·9	19·4	34·3	44·9	21·1	94·5	45·0	21·7	91·4	36·1	21·7	144·4	
	1958	1952	1953	1953	1956	1958	1952	1957	1954	1952	1952	1958	1954	1955	1952	1952	1955	1952	1952	1952	1958	
Puri . .	32·8	10·6	53·1	35·0	11·7	107·9	38·9	15·6	57·9	41·1	18·9	82·0	42·2	16·7	171·7	39·4	19·4	200·4	36·7	21·7	301·5	
	1946	1893	1921	1954	1955	1897	1899	1906	1919	1947	1946	1919	1943	1893	1893	1949	1908	1895	1938	1944	1918	
Gopalpur . .	32·8	10·0	47·2	36·7	11·7	134·4	40·0	15·6	95·8	38·9	19·4	55·1	43·3	20·0	126·5	41·9	21·1	171·7	38·3	20·6	200·9	
	1946	1899	1908	1954	1934	1937	1956	1925	1957	1940	1955	1894	1915	1948	1940	1958	1939	1914	1957	1929	1936	
Koraput . .	29·4	6·1	53·3	31·7	6·7	10·2	36·1	10·6	35·6	37·2	15·0	53·9	38·9	17·2	38·9	40·0	17·8	143·0	31·1	16·1	232·7	
	1958	1957	1958	1953	1956	1957	1953	1952	1954	1956	1956	1956	1956	1955	1951	1953	1952	1957	1957	1957		

X=Highest Maximum Temperature.

N=Lowest Minimum Temperature.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UPTO 1958 (1878-1879 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Tempera-ture	Rainfall	
36.1	23.3	253.0	36.1	22.2	369.1	35.6	17.2	172.2	33.9	10.6	85.1	30.7	7.2	53.1	1881	1881	Gangetic West Bengal—(contd.)
1944	1935	1888	1939	1940	1900	1957	1954	1882	1952	1883	1950	1957	1910	1883			Calcutta.
36.3	23.6	81.5	35.4	23.8	118.6	34.3	18.5	49.5	31.6	12.8	37.8	29.9	9.9	0	1957	1957	Barrackpore.
1957	1958	1957	1957	1958	1957	1957	1957	1958	1958	1957	1958	1957	1957	..			
36.7	21.1	232.4	36.1	22.2	283.4	33.9	17.2	321.6	32.8	12.2	113.3	29.4	9.4	91.9	1881	1881	Saugor Island.
1903	1953	1954	1921	1950	1958	1918	1898	1933	1944	1883	1955	1907	1896	1947			
..	..	176.3	..	..	137.2	..	..	155.2	..	..	132.6	..	..	144.8	..	1911	Sandheads.
..	..	1946	..	..	1946	..	..	1931	..	..	1915	..	..	1909			
36.7	22.8	130.1	35.0	22.2	240.0	34.2	18.3	200.7	32.8	13.9	64.8	31.1	10.0	29.7	1951	1951	Contai.
1951	1954	1954	1951	1956	1958	1957	1954	1955	1952	1953	1955	1956	1955	1954			
36.1	21.7	201.2	36.1	21.7	311.5	35.6	15.6	325.1	33.9	10.0	111.3	31.7	6.7	62.0	1921	1886	Midnapore.
1947	1955	1891	1957	1952	1958	1951	1954	1942	1937	1934	1941	1957	1937	1914			
35.0	17.2	78.7	36.1	17.2	181.6	35.6	16.7	49.8	32.2	11.1	55.4	30.1	9.4	7.4	1951	1951	Purulia.
1954	1953	1952	1955	1953	1958	1951	1954	1953	1952	1955	1957	1952	1956				
..	..	61.7	..	..	106.0	..	..	74.7	..	..	57.1	..	..	7.4	..	1951	Bankura.
..	..	1952	..	..	1958	..	..	1956	..	..	1953	..	..	1954			
36.1	21.7	260.6	37.8	20.0	304.8	36.7	16.1	180.3	35.6	10.6	106.9	31.7	7.2	69.6	1881	1881	Burdwan.
1945	1954	1909	1928	1953	1956	1951	1933	1942	1896	1883	1916	1951	1883	1934			
36.7	21.1	165.3	37.2	21.1	293.9	36.7	14.4	176.0	36.1	8.3	151.1	32.2	5.0	37.3	1886	1886	Krishnagar.
1957	1949	1926	1955	1887	1900	1957	1935	1945	1952	1934	1889	1954	1937	1954			
37.2	21.7	189.2	36.1	20.0	269.0	36.7	15.0	99.1	36.1	8.3	99.1	31.7	6.7	29.7	1921	1916	Asansol
1932	1933	1935	1941	1946	1946	1932	1938	1929	1955	1926	1930	1946	1937	1929			
36.5	22.8	116.3	34.9	20.6	238.3	35.5	17.0	79.2	31.4	13.0	49.5	29.6	7.8	29.0	1955	1955	Suri.
1957	1955	1956	1957	1956	1956	1957	1957	1958	1957	1957	1956	1957	1955	1956			
37.1	21.7	183.4	38.9	21.7	182.9	37.8	16.1	286.3	35.0	8.3	75.2	32.2	6.7	33.5	1881	1881	Berhampore.
1957	1933	1939	1947	1956	1900	1951	1954	1917	1952	1934	1930	1951	1935	1913			
35.8	..	104.4	36.1	..	97.5	35.9	18.3	88.4	33.3	13.3	58.4	32.6	10.4	0	1956	1956	Orissa
1957	..	1957	1957	..	1957	1957	1938	1958	1957	1958	1958	1957	1958	..			Baripada.
35.6	21.7	190.5	35.6	22.2	189.5	36.1	15.6	323.3	34.4	8.9	184.7	31.7	6.7	78.7	1891	1886	Balasore.
1955	1933	1926	1922	1919	1899	1925	1926	1941	1896	1892	1950	1944	1897	1947			
35.0	22.2	147.8	35.6	21.7	320.8	35.6	17.8	169.7	33.9	11.7	207.8	32.8	8.3	49.5	1931	1931	Chandbali.
1954	1933	1946	1951	1956	1950	1951	1952	1952	1949	1952	1950	1949	1939	1947			
37.2	21.7	320.8	36.7	21.7	249.2	38.9	16.7	292.6	35.0	10.6	195.6	33.3	8.9	54.9	1881	1881	Cuttack.
1880	1943	1933	1901	1933	1891	1886	1926	1899	1896	1937	1950	1954	1922	1909			
35.0	21.7	107.7	35.0	22.2	163.0	35.1	16.1	188.2	35.0	12.8	156.0	32.7	9.4	10.9	1952	1952	Bhubaneswar.
1952	1953	1954	1957	1955	1958	1957	1954	1954	1952	1953	1955	1957	1955	1954			
36.7	21.7	187.7	36.1	17.2	210.8	36.1	16.7	316.2	33.9	13.9	242.8	32.8	10.6	88.9	1891	1891	Puri.
1899	1898	1896	1901	1893	1934	1899	1901	1928	1914	1926	1915	1896	1895	1909			
37.2	19.4	229.9	36.7	20.6	196.9	36.3	16.7	281.7	33.5	12.2	261.6	32.2	10.0	105.7	1891	1881	Gopalpur.
1928	1911	1940	1920	1917	1886	1957	1897	1923	1957	1926	1923	1951	1902	1909			
30.6	15.6	143.5	29.4	16.7	91.4	30.6	10.6	98.3	28.9	8.3	43.7	27.8	5.0	16.8	1951	1951	Koraput.
1958	1957	1957	1955	1957	1954	1957	1954	1958	1957	1955	1951	1957	1955	1952			

R=Heaviest Rainfall in 24 hours ending at 0830 hrs. I.S.T.

..=Information not available.

TABLE III (A)—EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AND

Sub-division and Station	January			February			March			April			May			June			July		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Orissa—(contd.)																					
Titilagarh . .	31.7	6.1	27.4	37.8	10.0	24.1	42.2	13.9	26.7	45.0	18.6	23.1	46.7	21.1	76.7	47.2	22.2	103.9	37.2	21.1	255.3
	1957	1954	1953	1953	1956	1956	1955	1952	1954	1956	1957	1958	1956	1951	1956	1955	1957	1955	1952	1958	1958
Bolangir . .	32.3	9.7	0	35.3	10.6	20.3	39.6	15.5	0	43.8	..	17.6	44.1	..	19.6	44.9	23.2	68.6	37.2	21.0	325.8
	1958	1958	..	1958	1958	1958	1958	1958	..	1958	..	1958	1958	..	1958	1958	1958	1958	1958	1958	1958
Angul . .	33.9	6.7	48.8	37.2	8.9	71.1	42.2	10.6	42.7	45.6	16.1	65.5	46.1	18.9	84.3	46.1	21.1	156.0	37.8	21.7	243.8
	1930	1923	1906	1934	1950	1932	1953	1906	1907	1941	1920	1928	1947	1910	1946	1958	1954	1925	1912	1945	1932
Keonjhar . .	29.7	9.3	3.5	32.7	9.3	36.3	37.2	16.1	11.2	40.2	20.4	12.2	42.2	21.7	35.8	43.3	21.6	44.2	33.8	21.9	101.6
	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958
Sambalpur . .	33.9	4.4	90.7	37.8	5.6	55.1	43.3	11.1	46.2	45.6	14.4	45.2	47.2	20.6	107.9	46.7	19.4	254.5	40.6	18.3	401.3
	1889	1954	1957	1896	1950	1901	1888	1954	1951	1942	1905	1909	1948	1951	1891	1955	1903	1882	1902	1910	1889
Jharsuguda . .	32.2	6.1	42.4	35.6	8.3	39.6	42.8	11.7	58.7	44.4	15.8	31.7	46.7	21.1	33.0	46.1	21.1	159.2	37.0	22.2	117.9
	1958	1954	1953	1956	1956	1958	1955	1956	1951	1956	1957	1952	1956	1955	1955	1955	1958	1956	1952	1958	1952
Chota Nagpur																					
Jamshedpur . .	31.1	6.7	11.0	35.6	8.9	19.3	41.7	11.7	33.8	43.9	17.2	32.3	44.9	21.7	30.7	45.6	21.7	214.1	36.7	23.3	187.5
	1952	1953	1957	1953	1951	1958	1955	1954	1951	1954	1955	1952	1957	1951	1955	1953	1956	1953	1958	1955	1952
Jamshedpur (P.B.O.) .	31.8	6.7	15.0	36.1	8.9	20.1	42.2	11.7	33.8	44.4	18.2	32.3	45.9	21.7	38.1	46.6	22.8	108.5	36.8	21.7	187.5
	1958	1955	1954	1962	1951	1956	1955	1951	1951	1956	1957	1952	1958	1951	1955	1958	1956	1952	1958	1956	1952
Chaibasa . .	33.3	4.4	75.2	37.2	6.7	75.7	42.2	11.7	43.9	45.0	15.6	80.3	46.7	18.3	58.4	46.1	20.0	131.3	41.1	21.7	194.8
	1911	1934	1901	1911	1934	1906	1955	1927	1891	1941	1944	1946	1948	1938	1893	1958	1932	1919	1926	1943	1929
Ranchi . .	31.1	3.9	52.1	33.9	2.8	78.5	39.4	7.8	82.3	41.7	10.7	58.7	43.3	15.6	104.7	42.8	14.8	165.6	38.3	19.4	215.9
	1931	1946	1945	1956	1950	1913	1955	1898	1891	1938	1957	1944	1948	1952	1914	1958	1957	1898	1902	1951	1896
Ranchi (C.W.O.) .	27.7	7.2	10.2	33.3	6.7	43.8	36.7	10.4	44.7	40.6	16.7	9.7	42.8	21.7	34.0	42.3	21.1	38.1	34.0	21.1	178.8
	1958	1956	1956	1956	1958	1958	1956	1957	1956	1956	1958	1958	1956	1956	1956	1958	1956	1958	1958	1956	1958
Daltonganj . .	32.2	0	77.2	35.6	0.6	50.5	42.8	5.6	36.8	45.0	11.7	38.6	46.7	17.8	62.2	46.7	20.0	174.0	43.3	19.4	290.8
	1902	1923	1945	1914	1905	1908	1931	1898	1927	1898	1907	1914	1956	1932	1904	1897	1900	1907	1902	1928	1920
Hazaribagh . .	30.6	2.2	68.1	33.3	3.3	63.5	38.9	6.7	44.2	41.7	13.9	60.5	43.9	16.1	84.1	43.4	20.0	249.2	38.9	20.6	221.7
	1881	1933	1945	1896	1905	1927	1892	1898	1946	1956	1944	1925	1897	1878	1887	1958	1944	1911	1901	1940	1953
Dhanbad . .	31.1	9.9	17.3	33.3	9.9	9.2	39.5	13.3	16.3	42.9	19.7	27.9	45.1	23.2	4.1	45.9	21.9	75.4	36.7	21.6	56.6
	1958	1957	1957	1958	1957	1957	1958	1957	1958	1957	1957	1958	1957	1958	1958	1957	1958	1957	1958	1957	1958
Bihar																					
Purnea . .	28.9	1.7	86.4	34.4	1.7	59.7	40.6	6.7	40.6	43.3	11.7	114.3	43.9	15.6	220.5	42.8	17.8	268.2	36.7	21.1	204.2
	1902	1955	1957	1896	1891	1882	1941	1927	1950	1891	1905	1925	1916	1885	1887	1958	1906	1881	1942	1921	1916
Forbesganj . .	28.4	2.2	40.4	33.3	6.5	2.5	39.0	9.4	13.2	42.8	12.8	24.6	42.9	17.8	121.4	42.1	20.6	80.0	35.7	21.7	196.9
	1958	1955	1957	1955	1958	1955	1958	1957	1956	1954	1955	1955	1958	1956	1954	1958	1955	1954	1957	1954	1956
Darbhanga . .	28.9	1.1	57.7	33.3	1.1	43.9	40.6	7.2	36.3	43.9	11.7	60.5	43.8	17.2	74.4	43.3	20.0	243.8	38.3	21.7	199.6
	1932	1933	1957	1943	1905	1949	1941	1906	1897	1922	1912	1899	1958	1948	1923	1931	1955	1883	1942	1945	1926
Motihari . .	28.3	2.2	54.6	35.6	0	66.0	40.0	5.6	55.4	42.2	8.9	67.3	44.4	15.0	104.1	43.3	19.4	234.2	42.8	21.7	254.8
	1902	1905	1900	1896	1905	1889	1941	1945	1891	1954	1905	1899	1903	1952	1890	1935	1903	1919	1955	1953	1935
Muzaffarpur . .	..	..	15.2	..	..	8.9	..	..	5.1	..	..	30.5	..	..	25.4	..	..	99.1	..	..	129.5
	..	..	1956	..	..	1952	..	..	1956	..	..	1952	..	..	1958	..	..	1952	..	..	1957
Chapra . .	..	..	48.3	..	..	15.0	..	..	9.4	..	..	17.0	..	..	27.9	..	..	135.4	..	..	120.9
	..	..	1957	..	..	1951	..	..	1957	..	..	1953	..	..	1953	..	..	1952	..	..	1952

X=Highest Maximum Temperature.

N=Lowest Minimum Temperature.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UPTO 1958 (1878-1879 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Tempera-ture	Rainfall	
35.0	21.7	130.8	35.0	21.7	147.1	36.1	15.0	59.7	33.3	10.6	26.7	31.7	8.3	3.3	1951	1951	Orissa—(contd.)
1954	1951	1955	1953	1956	1952	1951	1954	1951	1956	1952	1958	1956	1957	1954			Titilagarh
33.6	21.1	81.8	32.9	22.2	82.6	33.5	17.7	33.6	31.1	13.2	4.2	28.9	13.0	0	1958	1958	Bolangir.
1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	..			
36.1	21.1	257.3	35.6	21.7	148.8	35.6	14.4	117.9	33.9	8.9	99.1	31.7	7.2	22.9	1906	1906	Angul.
1945	1956	1931	1943	1950	1939	1918	1926	1929	1918	1910	1915	1957	1937	1909			
31.9	21.9	22.6	32.1	22.1	30.7	31.6	16.8	30.5	29.2	12.9	10.7	27.2	9.3	0	1958	1958	Keonjhar
1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	..			
35.0	21.1	265.9	36.1	20.6	200.9	36.1	12.8	173.7	33.9	7.8	106.2	32.2	4.4	39.1	1881	1881	Sambalpur.
1954	1956	1934	1930	1921	1955	1920	1921	1936	1946	1926	1930	1902	1902	1885			
34.5	22.2	124.5	34.8	21.7	95.0	36.1	13.9	110.2	33.1	11.1	22.1	31.1	6.1	10.4	1954	1951	Jharsuguda.
1957	1956	1953	1957	1956	1955	1957	1954	1952	1957	1956	1953	1957	1955	1954			
Chota Nagpur																	
35.6	23.3	169.2	35.6	21.1	160.4	35.6	15.0	23.4	32.7	8.9	69.1	31.1	7.2	12.5	1951	1951	Jamshedpur.
1957	1955	1953	1958	1956	1958	1951	1954	1958	1957	1952	1953	1954	1955	1956			
35.1	22.8	92.5	35.1	20.6	129.1	35.6	15.0	54.4	32.3	8.9	28.5	31.3	7.2	12.7	1951	1951	Jamshedpur (P. B. O.)
1957	1955	1951	1958	1956	1957	1951	1957	1955	1957	1952	1951	1957	1955	1956			
37.2	21.1	200.7	35.6	21.1	155.5	36.6	13.9	214.6	33.9	7.8	82.0	31.1	5.0	38.1	1911	1891	Chaibasa.
1947	1913	1941	1946	1950	1953	1957	1954	1912	1937	1934	1941	1957	1913	1907			
33.3	19.4	147.3	35.6	16.1	152.9	35.1	10.6	231.1	32.2	5.6	79.5	30.0	4.4	32.3	1891	1891	Ranchi.
1945	1939	1945	1944	1949	1893	1957	1949	1941	1896	1949	1930	1950	1955	1928			
32.0	20.8	66.5	32.0	19.4	113.6	31.9	14.5	32.8	28.6	10.6	7.4	27.8	5.6	7.6	1956	1956	Ranchi (C. W. O.)
1958	1958	1957	1957	1957	1957	1957	1957	1956	1957	1958	1956	1957	1958	1956			
37.2	20.6	193.0	38.9	17.2	187.5	37.2	10.0	75.2	33.9	5.0	74.9	31.1	1.7	41.9	1896	1896	Daltonganj.
1903	1916	1907	1958	1899	1946	1899	1921	1937	1918	1912	1924	1956	1913	1940			
33.7	20.0	180.1	33.3	17.8	147.1	33.3	11.1	120.4	31.7	4.4	95.0	29.4	3.9	39.4	1878	1881	Hazaribagh.
1957	1942	1888	1945	1950	1898	1957	1934	1917	1896	1879	1924	1950	1945	1885			
35.6	22.7	73.0	35.1	22.2	82.6	34.9	17.7	34.0	32.2	14.1	0	30.0	9.6	0	1957	1957	Dhanbad.
1957	1958	1958	1958	1957	1958	1957	1957	1958	1957	1958	..	1957	1958	..			
Bihar																	
37.3	21.7	239.3	37.2	19.4	318.5	35.6	10.0	158.0	32.8	7.2	114.8	30.6	3.3	53.3	1881	1881	Purnea.
1957	1909	1918	1923	1890	1898	1957	1891	1929	1952	1883	1932	1953	1883	1913			
39.0	21.1	133.6	36.8	20.6	101.6	35.7	12.8	108.5	34.0	9.4	32.0	31.1	5.0	3.1	1954	1954	Forbesganj.
1957	1955	1955	1957	1955	1958	1957	1957	1956	1958	1954	1956	1955	1955	1957			
37.5	21.1	264.4	36.7	19.4	266.7	36.1	14.4	186.7	33.3	7.2	49.0	29.4	4.4	25.1	1881	1881	Darbhanga.
1957	1912	1913	1944	1896	1925	1938	1914	1949	1943	1926	1912	1943	1908	1929			
37.2	21.7	203.2	37.2	20.0	214.6	36.1	12.8	158.2	35.6	7.2	50.0	28.9	1.7	33.8	1884	1886	Motihari.
1953	1884	1915	1953	1890	1898	1954	1895	1893	1955	1949	1932	1955	1896	1932			
..	..	193.5	..	..	99.1	..	..	54.6	..	..	8.9	..	..	6.9	..	1951	Muzaffarpur.
..	..	1957	..	..	1956	..	..	1953	..	..	1952	..	..	1957			
..	..	138.9	..	..	96.0	..	..	57.4	..	..	44.7	..	..	13.2	..	1951	Chapra.
..	..	1952	..	..	1953	..	..	1953	..	..	1956	..	..	1956			

R=Heaviest Rainfall in 24 hours ending at 0830 hrs. I.S.T.

..=Information not available.

TABLE III (A)—EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AND

Sub-division and station	January			February			March			April			May			June			July			
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	
Bihar—(contd.)																						
Arrah . . .	..	..	103.1	..	..	20.1	..	..	76.5	..	..	69.9	..	..	31.7	..	..	105.4	..	..	107.9
Patna . . .	..	..	1957	..	..	1954	..	..	1957	..	..	1953	..	..	1952	..	..	1953	..	..	1955
Patna (Aerodrome)	28.9	2.8	57.4	34.4	2.2	40.6	40.6	7.8	53.1	43.3	14.4	46.7	45.6	17.2	109.2	46.1	20.0	350.5	41.7	21.1	177.8	
Patna (Aerodrome)	1939	1933	1957	1896	1905	1949	1941	1906	1881	1956	1905	1893	1941	1932	1887	1931	1912	1897	1903	1931	1893	
Dehri . . .	28.8	3.9	51.8	34.4	6.1	12.7	40.0	10.4	16.0	43.3	16.1	32.8	45.4	17.8	23.4	45.6	21.1	90.4	39.7	23.3	130.6	
Dehri . . .	1958	1956	1957	1952	1951	1954	1955	1957	1958	1956	1953	1958	1954	1952	1953	1952	1953	1958	1956	1957	1957	
Gaya . . .	30.6	6.1	22.9	34.4	8.3	17.0	41.1	12.2	16.0	44.4	17.2	27.9	46.7	20.6	5.3	46.1	20.8	87.4	41.4	22.2	115.6	
Gaya . . .	1958	1956	1958	1952	1956	1952	1953	1957	1956	1956	1955	1951	1951	1955	1956	1958	1957	1951	1958	1951	1953	
Jamui . . .	31.7	3.3	66.0	35.6	3.9	49.8	41.7	8.3	37.6	45.0	14.4	41.4	46.7	17.2	54.1	47.2	18.3	229.6	43.3	16.7	209.8	
Jamui . . .	1939	1955	1901	1896	1950	1889	1941	1945	1891	1938	1886	1933	1948	1893	1904	1931	1913	1883	1926	1886	1886	
Dumka . . .	30.7	5.0	24.1	35.0	7.2	10.9	40.0	10.1	24.4	44.4	16.1	21.8	45.8	20.0	62.7	45.6	22.2	68.6	39.9	21.1	122.4	
Dumka . . .	1958	1955	1953	1952	1956	1955	1953	1957	1952	1956	1958	1953	1958	1955	1952	1958	1953	1956	1958	1952	1951	
Bhagalpur . .	31.2	4.4	75.7	36.1	5.0	77.5	42.2	8.3	70.6	45.0	15.0	47.0	46.7	17.2	106.2	46.7	20.0	170.9	40.6	21.1	146.3	
Bhagalpur . .	1958	1945	1957	1952	1905	1940	1953	1906	1891	1951	1905	1946	1916	1934	1914	1926	1922	1927	1897	1948	1921	
Sabour . . .	29.4	6.7	91.2	33.3	8.9	8.6	40.0	12.1	5.1	43.9	13.3	17.5	44.4	16.1	31.7	43.9	21.1	94.5	38.1	22.8	82.3	
Sabour . . .	1958	1956	1957	1956	1951	1955	1954	1957	1952	1956	1955	1952	1951	1955	1951	1953	1957	1952	1958	1956	1956	
Uttar Pradesh (East)																						
Gonda . . .	28.9	1.1	52.6	33.3	3.3	41.4	41.1	5.6	40.1	44.4	13.9	71.4	49.9	18.3	104.1	46.7	16.7	127.8	41.7	20.0	215.4	
Gonda . . .	1946	1933	1953	1952	1934	1935	1941	1945	1944	1938	1955	1933	1958	1932	1956	1942	1936	1938	1957	1949	1955	
Nautanwa . .	28.0	2.8	33.0	31.7	5.2	15.7	38.9	10.0	9.7	43.3	13.9	9.9	44.8	16.7	83.8	44.4	20.6	182.6	42.1	22.2	154.9	
Nautanwa . .	1958	1955	1957	1956	1957	1956	1955	1958	1957	1956	1955	1958	1955	1956	1958	1957	1955	1957	1957	1957	1955	
Gorakhpur . .	30.0	1.7	72.4	36.1	2.8	33.0	41.7	8.3	47.2	43.9	12.2	67.3	48.3	16.7	110.2	46.5	16.1	208.5	40.6	18.9	189.5	
Gorakhpur . .	1937	1933	1883	1896	1905	1949	1941	1927	1891	1956	1905	1887	1958	1937	1956	1958	1949	1932	1926	1953	1937	
Azamgarh . .	28.9	3.3	38.9	35.0	3.3	37.6	43.3	10.6	28.7	44.4	16.1	14.2	'5.6	19.4	17.3	46.7	21.7	81.5	41.1	21.1	186.7	
Azamgarh . .	1952	1955	1957	1952	1950	1949	1949	1954	1958	1954	1953	1955	1949	1949	1953	1955	1950	1954	1953	1955	1955	
Ballia . . .	28.6	3.9	39.6	31.2	5.0	3.3	39.0	8.9	6.1	42.2	13.9	0.5	45.7	20.6	0	45.5	21.6	99.8	40.7	20.7	49.5	
Ballia . . .	1958	1957	1957	1958	1957	1958	1958	1957	1957	1957	1958	1957	1958	1957	1957	1958	1958	1957	1957	1957	1957	
Varanasi (Banaras)	31.1	2.8	65.0	36.1	1.7	67.1	41.1	6.7	37.1	44.4	11.1	34.5	47.2	18.9	51.6	47.2	20.6	159.5	45.0	20.0	288.3	
Varanasi (Banaras)	1882	1955	1942	1884	1905	1949	1955	1906	1940	1954	1905	1928	1884	1926	1889	1901	1914	1890	1957	1919	1914	
Varanasi (Banaras) (Babatpur Aerodrome)	29.4	1.7	12.7	34.4	5.9	21.3	41.1	10.0	11.9	43.9	16.7	5.1	46.1	20.6	17.8	46.1	21.7	75.7	40.6	22.1	166.4	
Allahabad (Bamrauli)	31.1	2.2	70.9	36.1	1.1	51.3	41.7	7.2	34.5	45.0	12.8	26.4	47.2	17.2	35.6	47.8	19.4	176.0	45.6	22.2	209.3	
Allahabad (Bamrauli)	1934	1936	1900	1896	1905	1898	1931	1906	1958	1931	1905	1933	1922	1924	1917	1901	1930	1916	1901	1955	1920	
Banda . . .	32.2	2.8	24.6	35.6	3.3	36.8	41.1	10.6	20.1	45.0	16.1	6.1	47.8	21.1	29.0	47.2	21.7	80.5	43.3	21.7	157.7	
Banda . . .	1958	1955	1955	1956	1950	1954	1953	1952	1950	1958	1955	1958	1950	1951	1958	1957	1953	1949	1949	1951	1951	
Fatehpur . . .	32.2	1.1	46.5	35.0	2.8	49.8	41.7	8.3	52.8	45.0	14.4	37.1	47.2	20.0	17.0	46.7	21.1	74.7	43.3	21.7	175.3	
Fatehpur . . .	1943	1935	1934	1956	1950	1942	1953	1935	1950	1948	1946	1935	1952	1948	1948	1955	1947	1955	1943	1949	1932	
Kanpur . . .	31.1	1.7	48.5	35.6	0.6	59.2	42.8	7.2	61.7	45.6	11.1	25.9	47.2	17.8	25.4	47.2	20.6	133.3	45.0	21.7	167.6	
Kanpur . . .	1939	1950	1893	1930	1905	1942	1941	1945	1944	1938	1905	1928	1941	1909	1913	1931	1922	1916	1903	1948	1924	

X=Highest Maximum Temperature,

N=Lowest Minimum Temperature.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UPTO 1958 (1878-1879 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
..	..	127.0	..	..	121.9	..	..	59.0	..	..	51.3	..	..	3.1	..	1951	Bihar--(Contd.)
..	..	1953	..	..	1952	..	..	1958	..	..	1956	..	..	1956	..	Arrah.	
38.3	21.7	165.3	37.8	20.0	366.0	36.1	15.0	158.2	33.9	8.3	63.7	30.6	6.1	73.7	1881	1881	Patna.
1903	1923	1914	1928	1890	1918	1932	1954	1894	1952	1934	1915	1951	1902	1929			
36.1	21.7	95.0	37.2	22.2	109.2	35.6	12.2	67.0	33.3	7.8	35.6	30.6	5.4	19.6	1951	1951	Patna (Aerodrome).
1957	1952	1953	1951	1957	1953	1951	1954	1958	1952	1952	1956	1951	1958	1957			
35.0	23.3	107.2	35.6	22.8	61.2	35.6	14.7	22.9	33.9	9.4	64.0	31.7	7.2	10.9	1951	1951	Dehri.
1958	1953	1958	1951	1956	1957	1951	1957	1958	1951	1952	1956	1952	1955	1956			
38.9	21.7	258.6	38.3	20.6	200.4	37.2	12.8	116.6	35.0	8.3	81.8	31.1	3.9	49.0	1881	1881	Gaya.
1935	1934	1942	1928	1890	1946	1918	1954	1894	1896	1953	1924	1929	1945	1885			
36.7	23.3	75.0	36.1	21.7	92.2	35.6	15.2	98.5	33.8	8.3	22.9	29.4	6.1	4.6	1951	1951	Jamui.
1957	1953	1958	1951	1956	1953	1951	1957	1956	1957	1952	1956	1954	1955	1956			
37.2	21.1	191.5	36.7	20.0	266.9	26.1	13.3	158.7	35.0	6.7	115.1	30.6	5.0	35.6	1891	1886	Dumka.
1938	1948	1888	1938	1956	1935	1957	1954	1890	1896	1934	1930	1954	1935	1913			
38.5	21.7	123.7	37.2	21.7	95.0	36.3	16.1	129.5	34.4	11.1	37.1	30.6	7.9	8.4	1951	1951	Bhagalpur.
1957	1957	1955	1956	1953	1953	1957	1954	1956	1952	1952	1956	1951	1958	1954			
37.4	22.8	106.9	37.8	21.7	136.7	35.6	13.3	155.5	33.4	6.1	37.3	29.4	3.3	7.9	1931	1931	Sabour.
1957	1933	1932	1933	1956	1942	1957	1954	1956	1957	1934	1956	1955	1942	1936			
																	Uttar Pradesh (East)
37.2	16.7	306.6	37.8	18.9	174.2	37.2	12.2	145.0	33.9	5.6	32.5	28.9	2.8	29.5	1932	1932	Gonda.
1939	1956	1938	1932	1950	1953	1951	1957	1933	1940	1934	1932	1951	1954	1950			
40.0	22.8	150.8	37.8	21.1	203.2	36.4	14.3	159.6	32.8	7.2	5.6	30.0	5.0	9.7	1954	1954	Nautanwa.
1956	1955	1958	1954	1954	1956	1957	1957	1958	1954	1954	1956	1955	1954	1957			
37.2	21.1	284.5	37.2	17.8	239.5	36.7	12.8	218.7	33.9	6.7	55.9	29.4	2.8	28.7	1881	1881	Gorakhpur.
1953	1944	1912	1954	1912	1930	1938	1895	1894	1952	1953	1956	1951	1913	1929			
36.7	22.8	130.6	38.3	18.9	210.8	37.8	13.3	81.0	36.1	6.7	40.9	31.1	5.0	12.5	1949	1949	Azamgarh.
1957	1955	1953	1951	1950	1956	1951	1954	1958	1951	1952	1956	1954	1954	1950			
36.8	20.7	149.1	36.1	19.6	65.3	36.1	10.4	68.4	32.8	5.8	0	29.9	6.3	1.8	1957	1957	Ballia.
1957	1957	1958	1957	1957	1957	1957	1957	1958	1957	1957	1958	1957	1957	1957			
40.0	22.2	321.6	38.3	17.8	349.5	39.4	11.7	138.9	35.6	6.7	74.9	32.8	2.2	53.1	1881	1881	Varanasi (Banaras).
1903	1955	1940	1938	1912	1943	1896	1919	1900	1941	1926	1927	1956	1913	1929			
36.4	23.3	95.8	36.1	22.0	106.7	35.6	12.8	33.0	33.3	6.1	140.5	28.9	5.0	11.9	1952	1952	Varanasi (Banaras) (Babatpur Aerodrome).
1957	1956	1953	1952	1958	1953	1952	1954	1956	1952	1952	1956	1954	1955	1953			
40.0	21.1	335.3	39.4	18.3	266.2	40.6	11.7	163.3	35.6	5.6	96.0	31.1	2.2	54.6	1881	1881	Allahabad (Bamrauli).
1903	1953	1953	1928	1912	1938	1896	1898	1894	1918	1941	1956	1946	1902	1886			
37.2	21.7	138.7	37.8	20.9	109.7	38.3	13.2	61.0	37.8	8.3	61.0	30.0	3.8	34.8	1949	1949	Banda.
1957	1957	1957	1951	1957	1954	1957	1957	1956	1951	1958	1956	1958	1958	1950			
39.4	21.7	191.8	38.3	19.4	125.0	38.9	12.8	84.3	35.6	6.1	12.2	31.1	2.2	39.4	1932	1932	Fatehpur.
1945	1953	1953	1932	1944	1939	1951	1952	1933	1944	1937	1936	1946	1945	1950			
40.6	21.7	235.2	40.0	16.1	233.9	40.6	11.1	136.1	36.1	5.0	59.2	31.1	1.7	40.6	1891	1891	Kanpur.
1903	1948	1915	1932	1896	1915	1896	1895	1894	1940	1948	1911	1940	1902	1950			

R=Heaviest Rainfall in 24 hours ending at 0830 hrs. I.S.T.

...=Information not available.

TABLE III (A) EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AND

Sub-division and station	January			February			March			April			May			June			July			
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	
Uttar Pradesh (East) (contd.)																						
Lucknow . .	30.6	1.1	95.3	35.0	1.7	61.5	41.7	7.2	28.2	45.6	12.8	129.5	47.2	17.8	103.4	48.3	19.4	229.1	45.6	21.7	311.7	
	1943	1946	1883	1921	1905	1928	1945	1945	1940	1898	1903	1909	1944	1886	1891	1901	1886	1886	1903	1950	1947	
Lucknow (Amausi Aerodrome). .	28.3	0.6	34.8	33.3	4.4	22.1	39.4	6.1	25.4	43.3	12.8	1.0	45.0	19.3	40.6	45.6	21.1	109.1	41.7	22.8	133.1	
Hardoi . .	28.9	2.8	54.9	32.8	5.0	35.1	38.9	9.4	40.6	43.3	13.9	6.3	45.3	20.6	26.9	48.3	20.6	134.1	41.7	22.8	153.9	
	1952	1955	1953	1952	1957	1954	1955	1954	1952	1954	1953	1953	1956	1958	1956	1953	1957	1958	1954	1953	1953	
Lakhimpur Kheri .	27.8	2.8	49.8	32.8	5.1	36.6	39.4	9.7	19.8	43.3	15.0	4.6	45.0	16.7	46.7	46.1	17.3	91.9	40.6	22.2	148.3	
	1958	1955	1954	1953	1957	1954	1953	1958	1957	1954	1951	1952	1958	1958	1956	1958	1958	1952	1951	1954	1954	
Bahraich . .	28.9	0.6	57.7	34.4	0.6	49.5	40.6	5.6	50.5	44.4	11.1	61.0	45.6	15.6	88.9	46.7	18.3	269.5	44.4	20.6	186.2	
	1946	1936	1953	1952	1905	1905	1941	1945	1914	1954	1943	1909	1953	1944	1938	1958	1914	1929	1902	1900	1955	
Uttar Pradesh (West)																						
Orai . .	30.0	3.3	30.3	33.9	2.2	22.9	41.1	8.9	22.1	44.1	12.2	5.3	46.7	19.4	7.6	46.7	15.6	234.9	43.9	20.6	110.0	
	1952	1957	1957	1952	1951	1954	1955	1957	1951	1958	1954	1952	1954	1951	1953	1955	1957	1952	1951	1950	1953	
Jhansi . .	33.3	1.7	45.0	37.8	0.6	36.8	43.3	7.2	42.2	45.6	14.4	18.3	47.2	20.0	40.6	47.8	20.6	162.3	45.6	21.7	239.5	
	1946	1935	1921	1930	1929	1944	1892	1945	1950	1958	1935	1933	1947	1947	1943	1924	1922	1942	1900	1958	1927	
Agra . .	31.1	-2.2	49.5	35.6	-1.7	51.8	42.8	5.6	36.3	45.0	11.7	32.5	47.2	16.7	32.3	48.3	19.4	97.3	45.6	21.1	152.7	
	1946	1935	1957	1897	1929	1915	1892	1945	1957	1941	1940	1944	1943	1926	1926	1889	1922	1886	1919	1951	1886	
Agra (Aerodrome) .	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mainpuri . .	30.6	-1.7	31.5	34.4	-0.6	60.2	41.7	5.0	33.3	45.6	11.1	29.7	47.8	15.6	37.6	47.8	18.9	191.0	45.6	18.3	135.9	
	1946	1927	1929	1922	1905	1898	1945	1945	1957	1948	1903	1914	1943	1955	1938	1948	1949	1952	1903	1934	1927	
Aligarh . .	30.6	0.6	40.6	32.2	1.7	45.0	41.7	3.9	24.6	44.4	10.9	30.5	46.1	17.8	39.4	46.3	18.6	144.3	43.9	20.6	164.6	
	1946	1935	1944	1956	1950	1954	1945	1945	1934	1948	1957	1933	1954	1957	1941	1958	1957	1933	1948	1957	1942	
Bareilly . .	29.4	0.6	61.0	32.8	0	95.3	40.0	5.0	79.3	43.9	11.1	38.1	46.7	16.1	40.1	46.1	19.4	218.4	43.9	20.0	251.2	
	1943	1905	1921	1884	1905	1915	1945	1945	1926	1952	1905	1909	1884	1898	1956	1948	1912	1908	1903	1931	1882	
Meerut . .	27.2	1.7	33.0	31.1	2.8	56.4	37.8	8.3	54.6	43.1	12.2	30.5	45.0	19.1	12.7	45.0	19.4	39.6	42.8	22.2	146.1	
	1952	1951	1954	1956	1950	1949	1955	1954	1951	1958	1955	1946	1954	1957	1953	1958	1951	1953	1949	1955	1953	
Najibabad . .	26.9	0.6	48.0	32.8	2.2	48.3	36.7	2.2	37.1	40.9	11.7	17.8	43.4	16.1	30.5	45.1	18.3	89.5	41.6	21.7	188.0	
	1958	1955	1953	1956	1958	1954	1953	1952	1942	1958	1955	1953	1957	1955	1956	1958	1954	1958	1957	1957	1958	
Roorkee . .	28.3	-1.1	101.6	31.7	-2.2	111.0	38.9	2.8	109.5	43.3	7.2	38.3	46.1	14.4	57.7	46.7	16.1	148.8	45.0	21.1	228.9	
	1898	1935	1883	1956	1905	1930	1945	1945	1955	1897	1905	1949	1884	1907	1910	1932	1900	1906	1931	1955	1889	
Dehra Dun . .	26.1	-1.1	79.5	29.4	-1.1	106.2	37.2	-2.2	81.5	40.6	7.8	39.1	42.8	12.8	79.3	43.9	13.9	188.0	40.6	18.3	294.6	
	1946	1945	1945	1956	1905	1949	1892	1945	1926	1892	1944	1898	1944	1947	1940	1902	1907	1925	1931	1902	1890	
Punjab (India) (Including Delhi) New Delhi . .	29.4	-0.6	116.8	33.3	1.7	104.1	41.1	4.4	62.2	45.6	11.7	40.9	47.2	18.3	30.5	46.7	18.9	235.5	45.0	21.7	226.2	
	1946	1935	1885	1934	1950	1942	1945	1945	1915	1941	1940	1909	1944	1952	1885	1945	1932	1936	1931	1943	1958	
Hissar . .	30.6	-3.9	58.4	34.4	-2.2	46.0	45.6	2.8	39.4	47.9	8.3	22.6	48.3	14.4	41.1	47.8	17.8	69.1	47.2	20.6	104.1	
	1952	1929	1948	1956	1929	1937	1945	1945	1927	1958	1918	1944	1944	1948	1916	1954	1922	1939	1947	1952	1923	
Karnal . .	27.2	1.7	32.5	31.7	2.2	45.7	36.7	7.0	33.5	42.8	11.2	26.4	45.0	17.6	21.1	45.6	19.0	68.6	42.9	20.6	131.1	
	1952	1955	1957	1956	1950	1954	1953	1957	1956	1952	1957	1955	1952	1957	1951	1958	1957	1954	1957	1955	1950	
Patiala . .	27.8	0.6	36.6	33.3	1.7	59.2	37.8	6.7	27.4	42.8	12.8	11.4	46.7	17.2	16.8	46.1	19.4	70.4	45.0	22.2	238.0	
	1952	1951	1953	1956	1950	1949	1953	1957	1951	1958	1951	1957	1954	1955	1950	1955	1952	1954	1951	1956	1949	

X=Highest Maximum Temperature.

N=Lowest Minimum Temperature.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UPTO 1958 (1878-1879 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temper- ature	Rainfall	
38.9	21.2	177.8	39.4	17.8	250.2	40.0	11.1	128.4	35.0	5.6	48.3	33.3	1.7	50.5	1881	1881	Uttar Pradesh (East)—(contd.)
1911	1958	1881	1920	1899	1915	1896	1895	1958	1951	1926	1927	1896	1902	1885			Lucknow.
36.9	22.2	117.8	40.1	19.7	148.6	37.2	10.6	191.4	33.9	3.9	4.8	28.9	2.2	4.6	1952	1952	Lucknow (Amausi Aerodrome).
1957	1956	1958	1958	1957	1957	1952	1957	1958	1952	1952	1956	1954	1954	1957			
36.8	21.6	197.4	36.7	16.7	172.7	37.8	11.1	87.1	33.9	6.1	7.9	28.0	3.3	15.7	1950	1950	Hardoi.
1957	1958	1956	1951	1950	1957	1952	1954	1955	1951	1952	1951	1958	1954	1950			
36.7	22.2	131.1	36.1	18.9	90.2	35.0	12.8	164.9	35.3	6.1	5.3	27.8	4.4	14.2	1950	1950	Lakhimpur Kheri.
1952	1957	1957	1956	1950	1958	1953	1954	1956	1957	1952	1951	1953	1950	1950			
38.3	21.1	325.9	38.3	18.3	236.2	37.8	12.2	171.5	33.3	5.0	78.0	31.7	1.7	81.0	1896	1896	Bahraich.
1903	1956	1938	1907	1912	1919	1907	1935	1945	1951	1952	1927	1896	1913	1956			
37.8	20.0	232.4	37.8	17.8	76.2	38.3	11.1	57.9	34.4	4.4	8.1	30.6	2.2	45.0	1950	1950	Uttar Pradesh (West)
1957	1950	1957	1951	1950	1957	1951	1957	1956	1953	1950	1951	1954	1950	1950			Orai
42.2	21.7	249.7	40.6	18.3	261.6	40.6	12.2	19.6	36.1	5.0	62.2	32.8	2.2	24.4	1881	1881	Jhansi.
1911	1939	1930	1913	1942	1910	1913	1957	1903	1941	1938	1927	1940	1937	1924			
42.2	20.8	119.9	40.6	17.2	286.0	41.1	9.4	169.7	36.1	2.8	45.7	30.0	-0.6	26.7	1881	1881	Agra
1918	1957	1952	1920	1935	1939	1920	1939	1910	1909	1926	1911	1954	1926	1923			
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Agra (Aerodrome)
..	
42.2	21.7	256.3	40.6	16.7	186.4	40.6	10.6	178.3	36.1	4.4	31.7	31.1	-1.1	59.2	1896	1896	Mainpuri
1918	1947	1949	1905	1942	1931	1896	1932	1903	1948	1938	1927	1956	1926	1923			
40.6	20.1	155.7	40.0	18.9	161.8	41.7	11.7	138.7	36.1	5.0	14.0	32.8	2.2	17.8	1932	1932	Aligarh.
1941	1957	1957	1938	1935	1947	1952	1949	1955	1944	1937	1951	1948	1945	1935			
40.6	21.1	224.3	38.3	16.7	206.8	38.3	8.9	179.6	36.1	5.6	63.0	29.4	1.7	37.6	1881	1881	Bareilly.
1918	1916	1948	1932	1899	1912	1918	1887	1884	1920	1934	1904	1889	1913	1923			
38.3	21.7	168.0	37.8	19.4	143.3	37.8	11.7	113.0	33.3	5.6	12.5	27.8	2.2	18.0	1945	1945	Meerut.
1954	1956	1958	1951	1950	1955	1951	1955	1954	1952	1952	1951	1955	1949	1958			
36.7	20.9	118.9	35.6	18.3	175.3	35.0	10.0	160.5	33.9	3.3	11.4	26.7	-0.6	37.8	1952	1952	Najibabad.
1956	1957	1956	1956	1957	1957	1953	1954	1956	1952	1956	1956	1955	1956	1958			
39.4	20.6	192.8	38.3	15.6	266.7	38.3	8.9	231.7	33.9	2.8	58.2	28.3	-0.6	58.2	1881	1881	Roorkee.
1918	1914	1889	1899	1944	1888	1899	1953	1956	1952	1934	1911	1889	1902	1923			
37.2	19.4	332.2	34.4	14.4	212.6	36.1	9.4	137.4	30.6	2.8	78.7	26.1	0	108.5	1881	1881	Dehra Dun.
1949	1932	1951	1938	1940	1924	1907	1938	1956	1952	1938	1911	1944	1954	1923			
40.0	22.2	181.6	40.6	17.8	176.5	39.4	9.4	172.7	35.0	3.9	20.8	28.9	-1.1	53.3	1881	1881	Punjab (India) (Including Delhi).
1945	1939	1891	1938	1944	1904	1951	1937	1954	1943	1938	1925	1948	1945	1894			New Delhi.
43.3	21.7	346.7	42.2	15.6	259.1	41.7	8.3	122.7	36.7	2.8	17.3	30.6	-1.1	38.1	1916	1916	Hissar.
1918	1918	1926	1938	1923	1917	1951	1949	1917	1943	1926	1928	1953	1945	1924			
40.6	20.3	167.6	38.3	6.7	117.6	39.3	11.1	130.3	34.4	5.6	17.5	27.8	0.6	23.6	1949	1949	Karnal.
1952	1957	1952	1951	1949	1950	1957	1957	1956	1953	1953	1951	1958	1954	1958			
40.0	21.6	168.7	40.6	18.3	82.0	38.9	10.0	81.0	33.3	4.4	52.1	28.3	0.6	21.3	1948	1948	Patiala.
1954	1957	1955	1951	1950	1957	1951	1948	1955	1952	1952	1951	1953	1954	1957			

R=Heaviest Rainfall in 24 hours ending at 0830 hrs. I.S.T.

.. = Information not available.

TABLE III (A) EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AND

Sub-division and station	January			February			March			April			May			June			July			
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	
Punjab (India) (Including Delhi)— <i>(contd.)</i>																						
Ambala . .	28.9	-1.1	104.9	33.3	-0.6	146.8	41.7	3.9	103.9	45.0	10.0	82.0	47.8	14.4	85.1	47.8	19.4	105.9	46.7	19.4	162.3	
	1946	1947	1953	1956	1905	1898	1945	1945	1956	1941	1944	1935	1944	1920	1913	1923	1939	1954	1903	1956	1945	
Ambala (Aerodrome) . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chandigarh . .	26.3	0	33.0	32.8	1.7	42.4	35.6	6.1	38.9	41.2	12.2	21.8	43.3	15.0	10.7	45.3	17.8	55.9	41.6	18.3	105.4	
	1958	1955	1957	1954	1956	1954	1958	1956	1956	1958	1955	1957	1954	1955	1958	1958	1956	1958	1957	1956	1955	
Ludhiana . .	28.9	-1.7	119.6	33.3	-1.1	71.9	41.1	3.9	89.9	46.1	8.9	55.9	48.3	15.6	31.2	47.9	18.3	108.7	47.8	16.1	163.1	
	1910	1935	1911	1956	1905	1942	1945	1945	1951	1941	1905	1944	1944	1924	1913	1958	1952	1894	1881	1901	1893	
Ferozepur . .	27.2	0	45.2	33.3	0.6	29.0	37.2	5.0	55.1	44.9	10.6	15.0	47.2	14.4	29.0	46.7	15.5	42.4	45.1	21.1	119.6	
	1952	1955	1957	1953	1951	1954	1955	1951	1957	1958	1955	1955	1954	1955	1951	1954	1958	1953	1957	1953	1951	
Amritsar . .	25.0	-1.7	35.5	32.2	-0.6	25.9	35.6	3.9	39.4	43.3	8.8	15.2	46.1	13.3	24.6	46.7	15.6	39.6	45.6	20.6	146.3	
	1952	1955	1957	1953	1958	1950	1953	1954	1951	1958	1957	1951	1954	1955	1951	1953	1958	1958	1954	1955	1948	
Pathankot . .	26.1	0	65.5	29.4	3.3	49.3	35.2	6.1	83.1	41.7	7.2	29.2	44.4	12.2	24.4	45.6	18.3	94.0	43.4	17.2	192.0	
	1952	1956	1954	1956	1955	1954	1958	1954	1956	1958	1955	1955	1952	1955	1952	1953	1957	1956	1957	1955	1954	
Pathankot (Aero- drome). .	23.3	3.6	14.0	26.6	3.7	7.9	35.0	7.0	18.0	42.2	13.3	15.1	41.1	16.4	2.0	45.7	19.8	22.3	0.4	21.7	122.7	
Himachal Pradesh																						
Bilaspur . .	24.6	1.8	27.7	26.6	0.8	2.5	33.8	5.5	35.6	40.7	11.3	23.9	41.2	13.5	14.7	44.2	16.7	49.8	41.8	21.3	85.3	
	1957	1957	1957	1958	1958	1957	1958	1953	1958	1958	1958	1958	1952	1955	1957	1958	1958	1958	1957	1957	1957	
Mandi . .	23.9	-2.8	26.2	27.8	0.2	10.2	32.3	4.3	38.3	38.9	6.7	26.7	40.6	10.6	22.6	42.7	15.3	63.5	39.4	16.1	103.4	
Jammu and Kashmir Srinagar . .	1956	1955	1957	1956	1957	1955	1958	1958	1955	1958	1955	1955	1956	1955	1956	1958	1958	1956	1954	1955	1958	
	17.2	-14.4	147.8	20.6	-20.0	66.3	25.6	-5.6	70.1	31.1	0	65.3	35.6	2.8	52.8	37.8	7.2	65.8	38.3	10.6	66.3	
	1902	1893	1930	1940	1895	1906	1931	1895	1920	1946	1905	1957	1936	1920	1931	1946	1935	1907	1946	1919	1931	
Guimarg . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sonamarg . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dras . .	..	..	1950	..	..	1951	..	..	1951	..	..	1953	..	..	1955	..	..	1948	..	..	1948
	5.0	-42.8	63.5	6.7	-43.3	105.4	10.0	-33.9	104.9	18.3	-25.0	65.8	25.0	-15.0	127.0	30.6	-10.0	60.0	33.9	0.6	36.8	
	1907	1909	1943	1928	1911	1928	1903	1911	1930	1946	1905	1928	1910	1947	1958	1906	1947	1958	1905	1907	1901	
Kargil . .	6.7	-32.8	61.0	17.8	-31.7	64.5	18.3	-25.0	104.4	25.6	-11.7	76.2	32.8	-6.1	59.7	40.0	-0.6	17.8	43.3	5.0	24.1	
	1940	1919	1943	1914	1920	1930	1941	1916	1930	1923	1919	1922	1917	1920	1940	1914	1921	1921	1912	1918	1929	
Lch . .	8.3	-28.3	24.4	12.8	-25.6	16.8	19.4	-19.4	16.0	23.9	-12.8	22.1	28.9	-4.4	22.3	33.9	-1.1	11.7	53.3	0.6	23.6	
	1916	1899	1893	1953	1943	1903	1908	1903	1930	1941	1903	1896	1893	1886	1951	1882	1886	1892	1883	1929	1882	
Skardu . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gurez . .	..	..	..	76.2	..	127.0	..	..	152.4	..	..	152.4	..	..	101.6	..	..	63.5	..	..	101.6
Gilgit . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Misgar . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Jammu . .	26.7	0.6	94.7	31.7	1.1	110.7	37.2	4.4	88.9	43.9	10.0	66.0	46.1	15.0	33.0	47.2	18.3	114.8	45.0	16.1	179.1	
	1926	1945	1932	1947	1929	1914	1945	1945	1915	1941	1918	1914	1954	1914	1930	1953	1936	1953	1951	1951	1917	

X=Highest Maximum Temperature.

N=Lowest Minimum Temperature.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UP TO 1958 (1878-1879 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Tempera-ture	Rainfall	
Punjab (India) (Including Delhi)—(contd.)																	
43.9	20.0	228.9	40.6	15.6	224.8	39.4	8.3	138.4	35.6	2.8	135.1	29.4	-0.6	47.5	1896	1896	Ambala.
1918	1939	1896	1951	1912	1945	1941	1898	1916	1947	1926	1951	1944	1913	1924			Ambala (Aerodrome).
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..			Chandigarh.
37.4	18.9	75.9	37.3	17.2	234.9	35.2	9.4	63.7	33.4	4.4	13.5	27.9	1.1	28.7	1954	1954	Ludhiana.
1957	1956	1955	1958	1955	1955	1957	1955	1955	1958	1957	1957	1958	1955	1957			Ferozepur.
44.4	20.8	184.9	41.7	15.6	206.5	40.0	9.4	354.3	35.0	2.2	25.4	29.4	-1.1	60.5	1881	1881	Amritsar.
1884	1957	1887	1905	1940	1883	1941	1932	1955	1909	1937	1957	1944	1930	1894			Pathankot.
40.0	21.3	116.8	39.4	18.3	209.6	39.4	8.3	63.3	35.0	4.3	42.7	28.3	-1.7	44.5	1950	1950	Himachal Pradesh
1958	1957	1953	1954	1953	1958	1952	1952	1955	1951	1958	1951	1953	1950	1957			Bilaspur.
40.0	19.3	79.8	40.6	17.2	122.4	38.3	8.3	190.5	32.2	-0.6	19.3	27.7	-2.8	20.3	1948	1948	Mandi.
1954	1957	1956	1949	1953	1954	1951	1953	1955	1952	1949	1951	1958	1950	1953			Jammu and Kashmir
36.2	18.9	150.4	36.7	15.6	137.2	36.7	10.6	277.9	32.2	5.6	26.7	26.1	1.1	43.4	1951	1951	Srinagar.
1957	1952	1956	1952	1953	1954	1952	1955	1955	1952	1955	1951	1955	1955	1958			Gulmarg.
35.1	20.9	117.9	35.3	18.8	89.2	32.4	13.5	46.3	30.6	5.7	0	24.2	4.9	31.9	1958	1958	Sonamarg.
1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958			Dras.
35.4	20.0	68.6	35.4	16.1	103.4	32.8	9.7	45.0	30.3	3.1	34.8	24.9	3.4	29.8	1957	1957	Kargil.
1957	1957	1957	1957	1957	1957	1957	1957	1958	1958	1958	1957	1958	1957	1957			Leh.
34.2	16.6	146.3	33.9	14.9	96.5	31.6	6.7	74.7	29.5	2.8	26.4	25.0	-2.2	35.3	1945	1945	Skardu.
1957	1957	1954	1956	1957	1954	1957	1954	1955	1958	1956	1957	1955	1954	1958			Gurez.
36.7	10.0	67.3	35.0	4.4	102.4	33.9	-1.7	59.9	23.9	-3.3	39.8	18.3	-11.7	64.5	1891	1891	Gilgit.
1946	1932	1929	1934	1940	1928	1931	1934	1917	1946	1958	1957	1901	1902	1904			Misgar.
26.7	2.8	115.1	25.0	-2.8	90.9	..	-5.6	..	..	..	..	..	..	..	1901	1901	Skardu.
1922	1951	1929	1934	1940	1905	..	1957	..	..	..	..	..	..	..			Jammu.
..	..	22.1	..	..	251.2	..	..	31.7	..	..	29.2	..	..	54.4	..	1948	
..	..	1958	..	..	1954	..	..	1949	..	..	1949	..	..	1950			
31.7	-2.2	40.0	29.4	-5.6	58.4	25.0	-20.0	88.9	15.0	-29.4	61.7	9.4	-45.0	81.5	1949	1901	
1907	1913	1958	1906	1906	1928	1916	1937	1917	1902	1911	1946	1904	1910	1921			
40.6	5.6	25.4	38.3	-0.6	20.3	32.2	-10.0	54.9	20.0	-9.4	15.2	12.2	-10.6	53.6	1949	1911	
1912	1920	1923	1914	1920	1941	1916	1917	1917	1915	1937	1918	1941	1937	1941			
32.2	2.8	51.3	30.6	-4.4	25.9	25.6	-7.8	39.1	20.0	-13.9	6.6	12.8	-25.6	15.2	1881	1881	
1916	1941	1933	1883	1940	1893	1916	1923	1955	1929	1934	1946	1891	1937	1944			
..			
..	..	63.0	..	..	162.6	..	..	165.1	..	..	16.5	..	..	101.6	..	1948	
..	..	1956	..	..	1953	..	..	1949	..	..	1950	..	..	1948			
..			
..			
41.7	17.8	228.6	38.3	15.0	184.1	37.2	12.2	160.0	32.5	6.7	40.1	27.2	3.3	66.8	1911	1911	Jammu.
1918	1912	1926	1954	1950	1951	1914	1955	1958	1949	1928	1944	1914	1924				

R=Heaviest Rainfall in 24 hours ending at 0830 hrs. I.S. T.

..=Information not available.

TABLE III (A) EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AND

Sub-division and station	January			February			March			April			May			June			July			
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	
Jammu and Kashmir —(contd.)																						
Gund . . .	..	..	50.8	..	..	31.7	..	..	37.3	..	..	39.6	..	..	58.4	..	..	24.9	..	..	23.6
Pandras . . .	..	..	1957	..	..	1956	..	..	1957	..	..	1956	..	..	1957	..	..	1957	..	..	1956
Panamik . . .	..	..	4.1	..	..	12.7	..	..	5.1	..	..	25.9	..	..	17.3	..	..	30.5	..	..	15.2
Khangral . . .	..	..	1956	..	..	1957	..	..	1957	..	..	1956	..	..	1958	..	..	1958	..	..	1958
Digar . . .	..	..	7.6	..	..	4.8	..	..	4.1	..	..	4.6	..	..	5.1	..	..	6.3	..	..	5.1
Khalatse . . .	..	..	0.8	..	..	1.3	..	..	1.5	..	..	2.0	..	..	22.9	..	..	5.1	..	..	22.9
Mulbik . . .	..	..	8.9	..	..	6.1	..	..	1.8	..	..	12.7	..	..	12.2	..	..	2.8	..	..	23.9
Rajasthan (West)																						
Sri Ganganagar .	36.1	—2.2	35.1	35.0	—2.8	28.2	41.1	0.6	47.0	46.6	8.3	22.3	43.5	11.7	48.0	50.0	18.3	99.1	46.7	21.7	86.1	
	1948	1945	1948	1953	1950	1948	1942	1945	1957	1958	1940	1944	1958	1945	1951	1934	1952	1938	1948	1952	1956	
Churu . . .	29.2	1.7	15.0	30.0	2.1	0.5	38.2	6.9	13.8	15.9	11.5	0.5	44.4	18.7	5.1	45.2	21.1	17.0	44.8	22.5	76.0	
	1958	1957	1957	1958	1957	1958	958	1958	1957	1958	1957	1958	1958	1958	1958	1957	1957	1957	1958	1957	1957	
Bikaner . . .	31.1	—2.2	25.4	37.2	—2.2	46.7	42.8	—0.6	43.9	47.2	8.3	31.0	49.4	16.7	48.3	48.9	17.8	110.7	47.2	20.6	134.1	
	1952	1954	1958	1953	1950	1906	1924	1898	1911	1925	1953	1944	1914	1930	1883	1897	1888	1884	1901	1931	1920	
Jaisalmer . . .	30.6	—4.4	7.6	37.8	—2.2	5.3	41.6	6.1	8.9	13.9	10.6	1.5	47.8	19.6	16.0	45.0	20.5	19.8	45.0	21.7	98.0	
	1952	1949	1957	1953	1951	1952	1958	1954	1955	1949	1953	1951	1956	1958	1951	1958	1957	1953	1951	1955	1954	
Phalodi . . .	31.1	—3.3	41.1	37.8	0.6	23.4	41.7	1.7	12.9	47.0	12.2	5.1	47.2	19.4	33.8	46.7	20.6	84.8	45.6	22.2	105.2	
	1946	1942	1944	1953	1951	1948	1945	1945	1948	1958	1953	1944	1956	1944	1953	1944	1945	1945	1947	1950	1948	
Nagaur*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Jodhpur . . .	32.8	—2.2	40.1	38.3	—0.6	22.6	41.7	5.0	20.6	48.0	9.4	26.7	48.9	17.2	38.1	47.8	19.4	152.9	45.6	19.4	194.1	
	1932	1905	1948	1953	1920	1939	1946	1908	1926	1958	1918	1919	1932	1909	1916	1901	1914	1917	1901	1926	1943	
Barmer . . .	33.3	—1.7	59.9	39.4	4.0	23.6	43.3	8.9	24.6	48.3	12.2	23.1	48.9	16.7	36.6	46.7	18.9	55.1	44.4	19.4	124.5	
	1949	1935	1945	1943	1957	1939	1946	1945	1940	1958	1945	1933	1932	1931	1945	1946	1931	1933	1939	1936	1944	
Rajasthan (East)																						
Pilanit . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Alwar . . .	28.3	2.8	30.4	34.4	4.4	1.3	37.9	10.0	15.7	46.4	16.1	1.8	50.6	19.3	9.4	48.8	23.8	38.6	42.8	22.3	55.3	
	1956	1956	1957	1956	1956	1958	1958	1956	1956	1958	1956	1957	1956	1958	1957	1957	1958	1957	1957	1958	1957	
Sikar . . .	30.6	—2.2	19.1	36.1	—2.8	16.5	39.4	4.4	10.9	44.4	8.3	5.3	47.8	15.6	13.5	43.9	20.6	53.3	44.4	21.7	129.3	
	1949	1955	1957	1953	1951	1954	1949	1956	1956	1958	1955	1953	1956	1955	1958	1948	1954	1955	1947	1956	1957	
Jaipur . . .	31.7	—2.2	37.1	36.7	—2.2	57.1	42.8	3.3	33.8	45.6	9.4	20.6	47.8	15.6	30.2	47.2	20.6	87.1	46.7	20.6	165.9	
	1932	1905	1957	1953	1905	1954	1892	1898	1926	1958	1905	1944	1932	1920	1930	1897	1934	1920	1901	1931	1888	
Jaipur (Sanganer Aerodrome). .	28.9	0	45.2	36.1	3.3	12.5	38.9	7.8	14.0	44.9	12.8	6.3	46.1	18.3	7.4	45.6	20.1	24.4	43.1	21.7	96.8	
Dholpur . . .	30.2	3.3	3.8	33.3	4.4	19.3	43.3	8.9	26.7	45.8	15.0	5.6	46.2	20.7	9.4	46.1	23.2	76.2	42.2	23.3	102.6	
	1958	1956	1956	1956	1957	1958	1955	1957	1957	1958	1957	1957	1958	1958	1957	1955	1955	1957	1956	1957	1957	

† Observatory started in July, 1958.

* Observatory started in May, 1958.

X = Highest Maximum Temperature.

N = Lowest Minimum Temperature.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UP TO 1958 (1878-1879 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temper- ature	Rainfall	
Janamu and Kashmir—(contd.)	49.3	..	..	19.0	..	..	38.6	..	..	18.4	..	..	23.0	..	1955	Gund.	
	1957	..	..	1957	..	..	1957	..	..	1957	..	..	1958	..	1955	Pandras.	
	73.7	..	..	26.7	..	..	25.4	..	..	7.6	..	..	2.5	..	1955	Panamik.	
	1957	..	..	1958	..	..	1955	..	..	1957	..	..	1958	..	1955	Khangral.	
	16.5	..	..	7.6	..	..	3.8	..	..	2.3	..	..	2.3	..	1955	Digar.	
	1957	..	..	1958	..	..	1957	..	..	1956	..	..	1956	..	1955	Khalatse.	
	12.7	..	..	25.4	..	..	48.3	..	..	0.8	..	..	1.3	..	1955	Mulbik.	
	1957	..	..	1958	..	..	1955	..	..	1957	..	..	1958	..	1955	Rajasthan (West)	
	20.8	..	..	7.6	..	..	38.1	..	..	2.5	..	..	12.2	..	1955	Sri Ganganagar.	
	1956	..	..	1958	..	..	1955	..	..	1957	..	..	1957	..	1955	Churu.	
	17.5	..	..	1.8	..	..	25.4	..	..	4.6	..	..	1.3	..	1955	Bikaner.	
	1957	..	..	1957	..	..	1957	..	..	1957	..	..	1958	..	1955	Jaisalmer.	
Rajasthan (West)	30.5	..	..	1.3	..	..	165.1	..	..	4.5	..	..	7.6	..	1955	Phalodi.	
	1957	..	..	1957	..	..	1957	..	..	1957	..	..	1957	..	1955	Nagaur*	
	42.8	21.7	146.1	42.8	15.6	135.8	41.1	6.7	7.9	37.2	1.7	18.5	30.0	-1.7	29.6	1934	1937
	1946	1950	1948	1939	1944	1958	1952	1949	1956	1943	1938	1951	1953	1950	1958	1957	1957
	41.4	23.7	29.0	38.0	18.9	54.2	37.9	10.6	12.7	35.1	5.2	10.9	29.1	0.9	5.2	1957	1881
	1957	1957	1958	1958	1957	1958	1957	1957	1957	1958	1958	1958	1957	1958	1958	1957	1957
	43.3	21.1	142.0	43.9	19.4	165.6	42.2	7.8	95.8	37.2	0.6	41.9	32.2	-2.8	30.0	1948	1948
	1899	1889	1909	1915	1924	1945	1951	1949	1917	1943	1937	1951	1954	1950	1892	1941	1941
	43.3	21.7	104.4	43.3	21.0	36.0	42.2	8.3	9.4	37.8	5.0	22.1	32.8	1.1	6.3	1948	1948
	1958	1955	1955	1949	1957	1958	1951	1949	1958	1950	1956	1957	1953	1955	1957	1931	1931
	43.1	21.7	72.4	40.6	20.1	63.5	42.2	8.9	24.1	36.7	5.0	13.5	32.2	0.6	11.4	1941	1941
	1957	1956	1953	1951	1957	1954	1941	1949	1956	1943	1946	1957	1953	1945	1958	1931	1931
Rajasthan (East)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Nagaur*
	42.9	20.6	184.4	42.8	17.8	215.9	42.2	10.0	142.0	37.2	5.6	26.9	33.3	-0.6	22.9	1891	1891
	1957	1927	1927	1915	1908	1924	1920	1949	1917	1957	1938	1893	1953	1945	1937	1931	1931
	43.3	20.0	25.5	42.8	16.7	55.4	42.8	13.9	18.0	38.2	6.7	27.6	34.4	3.3	14.0	1931	1931
	1957	1941	1944	1951	1935	1955	1951	1933	1956	1957	1946	1958	1944	1936	1942	1931	1931
	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Pilani†	Pilani†
	39.4	21.7	60.7	37.8	21.7	78.0	40.6	13.3	91.7	35.0	6.8	5.2	28.4	4.5	8.1	1956	1956
	1957	1957	1956	1957	1956	1957	1957	1958	1956	1957	1958	1958	1958	1958	1956	1956	Alwar.
	40.0	21.1	89.7	39.4	16.7	67.1	40.6	4.3	49.5	34.2	2.2	22.1	30.6	-1.7	20.3	1946	1946
	1957	1955	1947	1954	1957	1955	1951	1958	1955	1957	1946	1951	1953	1954	1946	1946	Sikar.
	41.7	21.1	179.1	41.7	17.0	187.5	40.0	6.9	114.3	36.1	3.3	32.3	31.1	0.6	41.4	1881	1881
	1911	1954	1932	1899	1957	1924	1899	1957	1924	1909	1938	1893	1953	1945	1924	1931	Jaipur.
Jaipur. (Sanganer Aerodrome).	38.3	18.9	103.6	37.8	17.1	77.2	37.8	11.7	59.4	34.0	6.7	17.4	30.0	1.7	0.2	1952	1952
	1955	1953	1957	1954	1957	1956	1952	1955	1956	1957	1956	1958	1954	1955	1958	1952	Jaipur. (Sanganer Aerodrome).
	39.0	21.1	93.2	37.2	20.9	54.6	38.2	11.1	105.4	35.0	3.9	0	31.3	2.2	4.1	1955	Dholpur.
	1957	1955	1958	1956	1957	1955	1957	1955	1957	1956	..	1957	1955	1955	1958	1955	Dholpur.

R = Heaviest Rainfall in 24 hours ending at 0330 hrs. I.S.T. .. = Information not available.

TABLE III (A) EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AN-

Sub-division and station	January			February			March			April			May			June			July			
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	
Rajasthan (East) (Cont'd.)																						
Ajmer . .	31.7	-2.2	46.5	35.6	-1.1	33.0	41.7	2.2	42.4	44.6	9.4	38.1	45.6	15.6	43.2	45.6	17.2	119.4	44.4	20.0	148.1	
	1902	1935	1948	1953	1905	1907	1892	1898	1932	1958	1886	1909	1912	1881	1925	1901	1944	1917	1901	1931	1943	
Kotah . .	33.9	1.7	35.8	38.3	2.2	50.8	42.8	7.2	17.8	47.5	14.4	25.9	47.8	18.9	53.3	47.8	21.1	132.1	46.1	22.2	249.2	
	1912	1929	1915	1943	1929	1915	1945	1945	1944	1958	1905	1933	1944	1930	1917	1945	1941	1917	1901	1939	1945	
Chambal . .	30.0	0	8.9	35.0	0.5	5.1	39.2	5.6	29.7	46.0	14.4	0	46.1	15.6	9.9	44.4	16.3	38.1	41.7	20.6	191.5	
	1958	1956	1958	1956	1957	1956	1958	1956	1957	1958	1956	..	1956	1957	1957	1958	1957	1956	1957	1956	1956	
Jhalawar . .	32.8	-0.6	47.7	36.7	1.7	11.4	41.7	5.0	14.2	46.3	14.4	34.8	46.7	18.9	27.2	46.1	21.1	252.0	42.2	19.7	246.6	
	1932	1935	1941	1953	1934	1942	1945	1943	1957	1958	1955	1933	1932	1955	1936	1945	1950	1945	1931	1958	1947	
Udaipur . .	30.6	1.7	49.5	36.7	1.1	14.0	38.3	7.4	20.1	44.4	10.6	26.9	43.9	16.4	9.9	41.7	18.8	64.8	37.8	21.1	105.9	
	1958	1954	1953	1953	1957	1948	1949	1957	1954	1958	1955	1953	1956	1957	1949	1958	1958	1945	1948	1954	1950	
Erinpura (Jawai Dam). .	30.8	5.0	36.8	36.1	3.4	2.5	39.4	9.4	16.8	45.6	14.4	0	44.7	22.1	1.0	43.6	20.6	32.0	38.6	22.8	47.5	
	1958	1956	1957	1955	1957	1955	1955	1956	1957	1958	1955	..	1958	1957	1955	1958	1957	1955	1958	1956	1958	
Madhya Pradesh (West)																						
Gwalior (P.B.O.) .	31.7	-1.1	40.1	36.7	0.6	20.6	41.7	7.2	14.5	46.2	12.8	15.2	48.3	20.6	41.9	47.2	21.1	162.6	43.9	22.8	149.9	
	1943	1954	1957	1949	1950	1954	1945	1945	1956	1958	1953	1943	1947	1958	1953	1945	1944	1952	1948	1942	1947	
Sheopur Kalan . .	31.7	0.6	21.6	37.2	1.9	20.8	41.3	7.2	29.7	45.9	13.9	7.6	47.8	21.1	15.7	46.7	22.2	89.1	42.2	22.2	187.2	
	1952	1954	1957	1953	1957	1954	1958	1956	1956	1958	1955	1952	1954	1954	1957	1954	1955	1955	1951	1953	1957	
Guna . .	31.7	-2.2	30.5	36.1	-1.1	40.6	41.1	5.0	59.9	43.4	11.1	3.6	46.1	17.8	44.7	46.1	20.0	191.5	41.7	19.6	293.4	
	1946	1934	1941	1953	1950	1942	1945	1945	1950	1958	1940	1953	1954	1937	1938	1945	1944	1945	1931	1958	1958	
Rajgarh . .	31.2	2.8	10.7	35.6	2.2	2.0	40.0	8.9	19.3	46.3	14.4	1.0	46.6	22.3	27.4	45.2	22.8	61.0	41.2	19.7	153.7	
	1958	1956	1956	1956	1957	1956	1956	1957	1957	1958	1956	1957	1958	1957	1956	1958	1957	1958	1958	1956	1956	
Neemuch . .	32.8	-1.1	68.3	36.7	-0.6	44.7	41.7	4.4	50.0	44.6	8.9	31.5	46.7	13.9	49.3	46.1	15.6	172.7	42.2	14.4	152.4	
	1898	1905	1891	1887	1886	1915	1892	1905	1923	1958	1905	1888	1912	1920	1883	1897	1885	1933	1901	1910	1943	
Ratlam . .	31.7	5.0	18.0	37.8	5.6	8.1	41.1	9.4	19.8	45.2	15.0	10.2	43.9	21.1	21.6	42.2	21.1	98.8	37.6	20.0	132.8	
	1952	1952	1953	1953	1951	1956	1952	1957	1954	1958	1955	1957	1956	1956	1953	1953	1951	1958	1951	1958	1954	
Alirajpur . .	32.2	7.3	2.3	37.2	3.7	0.5	40.9	9.8	0	44.0	17.2	13.1	43.3	21.7	26.7	41.6	21.5	69.1	35.1	21.7	186.8	
	1958	1957	1956	1956	1957	1956	1958	1957	..	1958	1956	1958	1958	1956	1956	1958	1957	1956	1958	1956	1958	
Indore . .	32.2	-1.1	80.5	36.7	-2.8	32.0	41.1	5.0	19.3	44.6	7.8	51.1	45.6	16.7	99.1	45.0	18.9	127.0	38.3	18.9	293.4	
	1938	1935	1920	1953	1929	1888	1892	1898	1944	1958	1905	1895	1916	1881	1886	1897	1958	1895	1931	1910	1913	
Bhopal (Bairagarh)	32.2	0.6	34.3	36.1	1.7	15.5	40.0	7.8	35.1	44.2	12.2	13.5	45.6	19.4	72.6	43.9	19.5	120.9	40.6	19.4	218.2	
	1934	1935	1948	1953	1950	1944	1945	1945	1936	1958	1935	1937	1947	1933	1956	1945	1957	1945	1931	1946	1939	
Khandwa . .	35.6	1.7	49.5	38.9	0.6	48.3	43.3	6.1	27.4	46.7	11.1	26.2	47.2	17.2	71.1	45.6	18.7	153.2	40.0	20.0	240.5	
	1932	1946	1920	1953	1929	1928	1892	1898	1881	1958	1905	1891	1947	1881	1956	1942	1957	1940	1900	1941	1927	
Hoshangabad . .	32.2	3.3	40.1	37.8	6.1	36.6	41.1	10.6	41.9	45.2	16.1	48.3	46.1	20.0	35.8	45.6	21.1	178.8	41.1	18.9	238.8	
	1950	1935	1919	1953	1950	1917	1953	1935	1957	1958	1951	1890	1954	1947	1893	1953	1946	1895	1931	1951	1898	
Betul . .	30.7	2.8	10.9	37.2	1.1	3.6	38.9	8.8	34.5	42.6	15.0	23.1	43.3	19.2	23.1	42.2	15.0	73.7	34.4	20.0	129.8	
	1958	1953	1957	1953	1950	1950	1953	1957	1957	1958	1955	1957	1954	1957	1957	1953	1949	1951	1951	1954	1954	
Chhindwara . .	30.0	3.3	22.3	35.6	2.8	37.9	38.3	8.9	14.7	42.5	15.6	15.2	43.8	20.6	47.7	43.0	18.3	73.9	34.4	20.0	91.4	
	1950	1951	1955	1953	1950	1950	1953	1957	1958	1958	1955	1957	1958	1956	1956	1958	1949	1956	1952	1952	1954	
Seoni . .	32.8	2.8	49.5	37.2	3.3	70.1	40.6	6.1	42.2	43.9	11.7	41.9	44.4	15.0	74.2	45.0	17.8	279.4	37.8	17.8	276.1	
	1882	1937	1943	1896	1911	1898	1899	1910	1936	1942	1905	1937	1954	1917	1918	1942	1928	1884	1931	1941	1929	

X=Highest Maximum Temperature.

N=Lowest Minimum Temperature.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UPTO 1958 (1878-1879 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
40.0	20.6	164.6	40.6	16.1	156.2	38.9	7.8	119.4	35.0	2.8	42.4	31.1	0.6	56.6	1881	1881	Rajasthan (East)—(con'd.)
1883	1935	1928	1915	1950	1924	1951	1889	1956	1901	1926	1958	1890	1936	1913			Ajmer.
41.1	18.9	172.2	40.6	20.0	185.4	41.1	13.4	98.0	37.2	7.8	54.1	33.9	3.9	30.0	1901	1901	Kotah.
1911	1947	1955	1951	1933	1926	1930	1957	1930	1901	1926	1927	1941	1926	1927			
37.2	15.6	109.7	40.6	14.4	105.0	37.2	8.3	45.5	37.2	3.3	2.0	31.5	-1.1	1.0	1955	1955	Chambal.
1955	1957	1956	1956	1957	1958	1957	1955	1955	1957	1958	1958	1958	1955	1956			
37.8	18.3	184.7	38.9	17.0	125.2	40.0	10.6	76.2	35.6	5.6	66.0	33.3	2.2	44.2	1931	1931	Jhalawar.
1955	1954	1942	1951	1957	1935	1951	1934	1956	1941	1956	1933	1941	1945	1947			
35.5	18.9	105.7	37.8	15.6	183.9	37.2	9.9	41.9	35.0	4.9	38.1	31.7	0.6	5.3	1947	1947	Udaipur.
1957	1950	1957	1951	1950	1950	1951	1957	1956	1951	1958	1948	1954	1950	1956			
38.3	22.3	180.9	37.2	21.1	152.9	36.9	12.8	22.1	34.7	7.8	0.8	31.4	5.6	3.8	1935	1955	Eripura. (Jawai Dam).
1957	1957	1957	1958	1955	1955	1957	1957	1957	1958	1957	1953	1953	1958	1957			
																	Madhya Pradesh (West)
38.3	21.1	108.5	37.2	18.3	159.0	39.4	8.9	150.6	35.6	3.9	11.7	31.1	0	31.7	1941	1941	Gwalior (P.B.O.).
1954	1955	1954	1951	1942	1945	1951	1952	1955	1941	1946	1946	1951	1945	1952			
38.9	21.1	86.1	38.3	17.4	69.1	40.6	10.2	100.8	37.3	6.1	19.1	31.7	0.6	10.2	1931	1951	Sheopur Kalan.
1955	1953	1952	1951	1957	1954	1951	1957	1956	1957	1953	1951	1953	1954	1956			
36.7	19.4	181.6	36.7	16.7	298.5	38.3	8.3	63.5	34.4	2.8	64.5	31.7	-0.6	35.6	1931	1931	Guna.
1955	1952	1934	1932	1942	1947	1951	1957	1956	1951	1940	1946	1941	1950	1946			
34.9	20.6	142.2	35.6	15.0	116.8	37.0	9.4	36.6	34.6	4.4	0	31.8	0	57.1	1955	1955	Rajgarh.
1957	1956	1956	1955	1956	1955	1957	1955	1955	1957	1956	..	1953	1955	1956			
37.8	18.3	186.0	38.9	17.2	177.5	39.4	10.6	102.1	35.6	5.0	51.6	31.7	0.6	22.3	1881	1881	Neemuch.
1899	1913	1957	1951	1902	1947	1899	1890	1955	1901	1938	1934	1953	1929	1892			
35.0	20.0	153.4	37.8	16.1	255.3	38.3	12.8	162.3	34.4	9.4	15.7	32.2	6.1	4.3	1948	1948	Ratlam.
1954	1956	1957	1951	1954	1950	1951	1952	1955	1951	1956	1951	1954	1955	1950			
33.7	20.6	140.7	34.4	20.0	121.9	37.3	12.8	143.0	35.4	7.2	15.0	32.2	6.1	50.8	1955	1955	Alirajpur.
1958	1956	1957	1956	1956	1958	1957	1956	1955	1957	1956	1958	1957	1955	1956			
35.0	18.9	209.8	37.2	16.7	136.7	37.8	8.9	78.5	35.0	5.6	69.0	32.8	1.1	45.0	1881	1881	Indore.
1899	1952	1928	1899	1902	1933	1899	1890	1938	1925	1938	1958	1896	1936	1928			
35.0	19.4	188.5	36.1	17.2	233.2	37.8	11.7	123.7	33.3	6.1	68.3	32.8	3.3	31.7	1931	1931	Bhopal (Bairagarh).
1932	1956	1944	1951	1951	1947	1951	1943	1955	1951	1941	1936	1941	1936	1935			
39.4	19.4	203.2	40.6	17.8	195.1	40.6	9.4	146.6	37.2	6.1	84.8	34.4	2.8	95.8	1881	1881	Khandwa.
1951	1943	1957	1899	1942	1882	1899	1890	1924	1951	1949	1936	1896	1929	1886			
35.6	19.4	294.1	37.2	17.8	207.0	37.2	12.2	98.3	35.0	3.9	86.4	32.2	4.4	109.7	1931	1881	Hoshangabad.
1950	1943	1919	1954	1942	1950	1951	1952	1943	1951	1952	1912	1953	1938	1928			
32.2	18.9	127.8	32.2	17.4	125.0	33.9	8.3	92.7	32.2	5.6	90.7	30.6	3.3	21.6	1948	1948	Betul.
1950	1951	1953	1951	1957	1954	1952	1952	1951	1948	1956	1956	1952	1955	1950			
33.3	18.2	101.3	34.9	16.3	151.1	34.1	10.6	75.2	31.1	5.6	120.7	29.4	3.3	10.9	1949	1949	Chhindwara.
1950	1957	1955	1957	1957	1955	1957	1952	1955	1957	1956	1956	1957	1955	1956			
35.6	17.2	281.9	35.0	16.1	208.0	36.1	10.6	124.5	33.9	6.7	116.8	31.7	3.3	68.3	1881	1881	Seoni.
1899	1917	1913	1944	1942	1947	1899	1910	1916	1899	1939	1946	1899	1936	1909			

R=Heaviest Rainfall in 24 hours ending at 0830 hrs. I.S.T.

...=Information not available.

TABLE III (A) EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AND

Sub-division and station	January			February			March			April			May			June			July			
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	
Madhya Pradesh (West) (contd.)																						
Sagar . . .	31.7	1.7	84.1	35.0	1.1	43.2	41.1	7.2	60.9	43.9	10.6	23.9	45.6	17.8	58.2	45.6	18.3	235.5	41.1	16.1	284.5	
	1912	1934	1887	1953	1929	1951	1892	1898	1957	1896	1926	1937	1914	1920	1903	1897	1922	1890	1931	1904	1904	
Nowgong . . .	32.2	-1.7	46.5	36.7	-0.6	48.0	41.7	5.0	25.9	45.0	11.7	40.6	47.2	13.9	31.0	46.7	18.4	462.8	45.6	20.8	232.7	
	1946	1935	1921	1934	1905	1946	1931	1945	1913	1948	1905	1909	1947	1932	1913	1954	1957	1897	1931	1958	1902	
Madhya Pradesh (East)																						
Sutna . . .	32.2	0.6	81.3	35.0	1.1	49.3	41.1	4.4	43.9	45.0	12.2	52.8	46.7	18.3	33.5	47.8	19.4	362.6	45.0	17.8	209.5	
	1946	1933	1955	1956	1905	1936	1945	1949	1893	1896	1918	1946	1947	1933	1914	1954	1929	1882	1931	1929	1894	
Sidhi*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Umaria . . .	34.4	0	61.2	36.7	0.6	55.6	40.0	5.0	43.4	44.4	12.8	31.5	45.6	18.3	27.7	45.6	20.0	209.8	39.6	20.6	178.3	
	1943	1933	1939	1954	1950	1950	1955	1945	1941	1942	1951	1937	1954	1937	1945	1948	1946	1958	1939	1946		
Jabalpur . . .	32.8	1.1	63.7	37.2	0	55.6	41.1	3.3	39.6	45.0	10.6	50.3	46.7	17.2	73.7	46.1	19.4	185.2	41.7	20.6	142.9	
	1946	1946	1919	1953	1905	1898	1892	1898	1927	1942	1905	1935	1954	1937	1885	1889	1922	1882	1902	1930	1915	
Mandla . . .	30.6	0.6	38.3	35.6	2.7	26.7	39.4	7.8	29.7	43.2	11.1	19.3	45.0	16.8	20.1	44.4	21.1	43.4	38.9	21.0	148.1	
	1954	1954	1953	1953	1957	1958	1955	1957	1951	1958	1956	1951	1954	1957	1956	1955	1956	1958	1958	1958	1953	
Pendra . . .	30.1	3.3	45.0	34.4	1.7	42.9	39.4	8.9	70.9	42.8	13.3	67.8	43.9	17.8	55.9	43.9	16.7	242.1	37.2	18.3	166.6	
	1958	1937	1933	1953	1929	1917	1955	1906	1956	1942	1930	1926	1928	1933	1925	1942	1915	1946	1954	1942	1953	
Antbikapur . . .	29.3	1.1	20.1	33.3	3.9	48.0	38.3	8.2	21.8	41.1	12.8	21.3	43.3	18.9	51.1	43.3	21.0	51.3	37.1	20.6	109.2	
	1958	1954	1954	1954	1956	1956	1955	1957	1952	1956	1955	1951	1956	1951	1956	1955	1957	1956	1958	1951	1954	
Champa . . .	32.2	7.8	64.0	36.7	8.3	25.4	41.7	13.2	88.1	45.0	18.3	13.2	47.2	20.5	37.6	47.2	21.7	96.5	39.4	21.7	142.0	
	1950	1954	1945	1953	1950	1956	1955	1957	1951	1952	1957	1945	1948	1957	1956	1953	1949	1956	1954	1946	1952	
Raigarh . . .	32.8	7.8	39.4	37.2	9.4	26.6	42.2	13.9	61.0	45.0	19.2	29.2	46.7	22.8	40.4	47.2	22.8	139.7	38.4	22.2	261.0	
	1955	1951	1953	1955	1956	1958	1955	1957	1951	1956	1957	1951	1956	1956	1953	1956	1955	1958	1955	1955	1958	
Raipur . . .	35.0	5.0	55.4	37.8	5.0	57.4	43.3	8.3	55.9	46.1	15.0	38.3	47.2	14.4	80.3	47.2	16.1	202.7	38.9	20.0	213.1	
	1955	1908	1921	1899	1893	1917	1892	1898	1906	1942	1905	1909	1935	1904	1904	1931	1884	1919	1931	1884	1884	
Kanker . . .	32.8	3.9	53.3	35.0	3.9	52.8	40.0	10.0	48.3	43.3	15.6	44.2	44.4	17.8	45.7	46.1	17.8	245.9	35.0	18.9	289.1	
	1931	1946	1943	1953	1934	1950	1942	1948	1957	1942	1944	1951	1953	1945	1932	1931	1936	1940	1954	1940	1951	
Jagdalpur (P.B.O.)	33.1	4.4	40.6	36.7	5.0	120.4	40.6	9.4	45.7	43.3	13.9	54.4	46.1	17.2	64.3	44.4	17.2	133.1	35.6	18.3	180.9	
	1957	1913	1926	1953	1943	1919	1953	1948	1927	1941	1943	1939	1912	1917	1925	1953	1913	1940	1920	1958	1934	
Gujarat																						
Deesa . . .	35.6	-2.2	28.2	40.6	-0.6	31.5	46.1	5.6	24.1	46.3	10.0	24.1	50.0	17.8	68.6	48.3	20.6	102.4	43.9	19.4	252.2	
	1932	1935	1940	1953	1929	1941	1892	1905	1911	1958	1905	1923	1912	1920	1897	1943	1956	1902	1887	1908		
Idar . . .	31.9	7.8	5.8	33.4	9.7	0	40.9	10.2	0	46.6	15.7	0.5	44.3	20.7	1.3	43.3	20.6	48.0	37.6	20.4	307.0	
	1958	1957	1957	1958	1957	..	1958	1957	..	1958	1958	1957	1958	1957	1957	1958	1957	1958	1958	1958	1958	
Ahmedabad . . .	36.1	3.3	30.7	40.6	2.2	26.4	43.9	9.4	12.2	46.2	12.8	21.6	47.8	19.4	46.2	47.2	19.4	130.8	42.2	21.1	414.8	
	1912	1954	1948	1953	1920	1917	1908	1908	1940	1958	1955	1947	1916	1920	1917	1897	1920	1937	1902	1908	1927	
Dohad . . .	33.9	0	11.9	39.4	2.2	20.6	41.7	9.4	22.3	45.4	15.0	15.2	45.0	20.0	122.7	44.4	21.1	90.4	38.3	20.6	230.3	
	1949	1935	1953	1953	1950	1942	1945	1945	1944	1958	1935	1946	1932	1933	1938	1945	1957	1940	1939	1947	1958	
Baroda . . .	35.6	-1.1	15.2	41.7	1.7	31.7	43.3	6.7	10.4	45.9	11.7	0	46.7	18.9	71.4	45.6	21.5	129.8	40.0	21.1	183.4	
	1952	1935	1953	1953	1950	1933	1949	1936	1954	1958	1935	..	1955	1939	1947	1945	1957	1958	1939	1943	1941	
Baroda (Aerodrome)	35.6	5.0	14.0	40.6	3.9	3.1	41.8	10.9	2.8	45.2	14.4	0.3	46.1	21.6	40.9	43.3	21.2	87.7	38.3	22.2	111.5	
	1952	1954	1953	1953	1950	1954	1958	1957	1954	1958	1955	1957	1955	1957	1956	1953	1957	1958	1949	1952	1956	
Broadh . . .	36.9	5.6	7.9	42.8	6.1	2.5	43.3	11.5	14.0	45.6	16.1	0.3	47.8	21.2	80.5	44.4	22.3	109.2	37.8	22.8	195.1	
	1957	1954	1953	1953	1957	1954	1956	1957	1954	1956	1955	1954	1955	1957	1956	1953	1957	1954	1951	1954	1954	

X=Highest Maximum Temperature.

N=Lowest Minimum Temperature.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UPTO 1958 (1878-1879 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temper- ature	Rainfall	
35.6	19.4	274.3	38.3	16.7	159.3	37.8	11.7	198.2	34.4	6.1	105.2	31.7	4.4	73.9	1881	1881	Madhya Pradesh (West)—(contd.)
1899	1956	1908	1881	1926	1947	1899	1890	1958	1909	1926	1902	1896	1926	1886			Sagar.
38.3	20.6	247.4	39.4	17.2	169.2	39.4	8.4	127.0	35.6	3.9	75.2	32.8	0	84.6	1881	1881	Nowrang.
1945	1957	1903	1929	1944	1906	1930	1957	1926	1929	1941	1910	1929	1926	1886			Madhya Pradesh (East)
36.1	21.1	299.7	37.2	16.7	178.1	38.3	10.0	152.4	35.5	5.0	84.6	32.2	1.1	47.7	1881	1881	Sutna.
1932	1954	1919	1932	1912	1951	1896	1890	1882	1957	1941	1956	1948	1937	1929			Sidhi*
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Umaria.
35.0	20.0	302.0	35.6	17.8	126.5	35.2	9.4	83.8	32.9	3.9	79.5	31.7	0.6	41.1	1932	1932	Jabalpur.
1945	1951	1953	1958	1944	1933	1957	1933	1937	1957	1937	1946	1941	1937	1940			Mandla.
35.0	18.3	320.5	35.0	16.7	251.7	36.7	7.8	121.9	33.9	3.9	93.5	32.8	0.6	68.1	1881	1881	Pendra.
1954	1929	1923	1941	1699	1926	1941	1881	1916	1956	1889	1956	1941	1902	1885			Ambikapur.
33.6	19.9	157.8	33.9	17.4	148.1	35.0	7.8	121.4	32.2	3.3	65.8	30.0	1.1	28.5	1950	1950	Champa.
1958	1957	1957	1951	1957	1955	1951	1952	1951	1957	1950	1956	1953	1955	1950			Raigarh.
32.8	18.3	262.1	32.8	17.8	150.4	33.9	11.7	91.4	31.7	6.1	53.4	30.0	3.9	37.1	1906	1906	Raipur.
1925	1910	1953	1938	1935	1926	1920	1933	1915	1909	1926	1924	1941	1936	1906			Kanker.
31.2	20.7	98.8	32.2	19.4	81.8	33.3	9.4	30.0	29.6	4.4	6.6	28.3	1.7	9.4	1950	1950	Jagdalpur (P.B.O.).
1958	1958	1951	1955	1951	1954	1957	1954	1956	1957	1952	1956	1950	1955	1956			Gujarat
35.1	22.2	171.5	35.0	21.1	96.0	36.2	15.5	63.5	33.3	10.0	41.1	31.1	8.3	17.5	1945	1945	Deesa.
1957	1957	1953	1954	1950	1955	1957	1957	1955	1946	1950	1946	1954	1955	1954			Idar.
35.1	22.2	169.4	35.7	21.1	108.2	36.2	15.0	40.9	33.3	10.0	4.6	31.8	7.8	6.1	1950	1950	Ahmedabad.
1957	1953	1952	1957	1950	1958	1957	1954	1951	1951	1950	1956	1957	1955	1954			Dohad.
36.7	20.0	370.3	37.2	18.3	143.6	37.8	13.9	148.6	35.6	8.3	70.4	32.2	3.9	52.1	1881	1881	Bardoda.
1883	1939	1910	1899	1902	1905	1899	1933	1900	1935	1883	1930	1941	1902	1909			Baroda (Aerodrome).
33.9	20.0	195.3	33.3	18.9	257.3	34.5	11.7	112.8	32.8	7.2	58.4	31.1	3.9	17.8	1931	1931	Breach.
1947	1939	1937	1951	1950	1936	1957	1954	1938	1946	1939	1950	1943	1934	1940			Baroda.
33.9	16.7	203.2	35.0	17.8	163.8	34.4	11.1	136.9	33.3	5.6	102.9	32.2	3.9	38.3	1911	1911	1949
1922	1920	1920	1931	1913	1950	1911	1913	1941	1938	1946	1912	1924	1946	1945	1952		
41.1	21.1	306.1	42.2	17.2	349.5	42.8	10.6	92.7	37.6	5.0	28.7	36.1	1.7	14.0	1881	1881	Deesa.
1902	1948	1907	1951	1912	1893	1925	1889	1917	1957	1938	1896	1935	1903	1927			Idar.
34.7	21.3	91.2	35.8	18.6	64.6	38.6	15.7	33.2	36.7	15.2	1.3	32.6	9.6	2.0	1957	1957	Ahmedabad.
1957	1958	1957	1957	1958	1957	1957	1957	1958	1957	1957	1957	1957	1957	1957			Dohad.
38.9	21.7	150.6	41.7	21.6	257.8	42.8	14.4	52.8	38.9	10.0	53.3	35.6	6.1	14.0	1896	1896	Baroda.
1911	1929	1906	1951	1958	1950	1920	1955	1917	1901	1956	1947	1899	1954	1927			Baroda.
36.1	21.1	295.4	38.9	17.8	265.4	40.0	11.7	177.0	36.1	8.9	65.4	34.4	5.0	7.4	1931	1931	Baroda.
1932	1956	1933	1951	1950	1945	1951	1935	1954	1953	1938	1958	1953	1936	1931			Baroda.
37.2	22.8	238.0	41.1	18.9	372.1	41.7	11.7	138.4	38.3	7.2	48.3	36.1	3.3	3.6	1933	1933	Baroda.
1947	1953	1956	1951	1938	1945	1951	1955	1940	1951	1938	1934	1941	1937	1933			Baroda.
35.6	21.7	277.1	41.1	21.1	148.9	41.1	13.3	71.1	37.8	10.6	16.8	35.0	6.7	0	1949	1949	Baroda.
1949	1956	1956	1951	1957	1958	1951	1954	1954	1951	1956	1957	1952	1954	..			Baroda.
35.6	22.8	154.9	41.7	21.1	304.8	41.7	14.4	69.3	38.9	11.7	10.4	37.2	8.3	0.5	1951	1951	Baroda.
1954	1952	1956	1951	1957	1954	1952	1954	1958	1957	1953	1958	1952	1955	1954			Baroda.

R=Heaviest Rainfall in 24 hours ending at 0830 hrs. I.S.T.

*Observatory started in July 1958.

..=Information not available.

TABLE III (A) EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES ($^{\circ}\text{C}$) AN

Sub-division and station	January			February			March			April			May			June			July			
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	
Gujarat—(contd.)																						
Surat . . .	38.3	4.4	43.7	41.7	5.6	38.1	43.9	10.6	8.1	45.6	15.0	97.8	45.6	19.4	48.8	45.6	21.7	260.1	38.9	20.6	459.2	
	1952	1929	1920	1953	1929	1898	1945	1898	1954	1952	1903	1947	1956	1888	1917	1901	1916	1922	1902	1889	1941	
Saurashtra and Kutch Naliya*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhuj (P.B.O.) . .	36.1	1.7	14.0	38.9	1.1	61.5	43.9	8.3	30.0	45.6	13.9	67.1	47.8	16.7	186.9	46.1	16.1	129.8	40.0	19.4	352.0	
	1902	1935	1935	1953	1929	1942	1892	1905	1915	1893	1945	1881	1886	1916	1933	1901	1902	1910	1902	1924	1950	
Bhuj (Acrodrome) . .	32.4	3.9	1.0	37.2	4.3	0	40.0	11.1	4.3	44.8	13.9	0	45.6	21.7	29.2	42.0	24.4	21.8	39.6	20.6	85.9	
	1958	1956	1958	1955	1957	..	1956	1957	1958	1958	1955	..	1955	1957	1955	1958	1956	1956	1958	1954	1957	
Kandla . . .	31.7	9.8	5.1	33.9	7.7	0	39.7	14.3	3.8	42.2	18.3	0	43.3	22.1	3.1	37.2	24.3	105.9	37.2	22.4	129.0	
	1958	1957	1958	1956	1957	..	1958	1957	1955	1956	1955	..	1956	1957	1957	1958	1957	1956	1958	1957	1956	
Mandvi . . .	29.4	7.8	3.6	35.6	8.9	0	37.2	13.2	1.5	41.1	15.0	0	41.7	21.1	0	35.0	25.0	20.8	36.4	21.1	93.5	
	1958	1956	1953	1955	1957	..	1958	1957	1955	1958	1956	..	1956	1957	..	1955	1956	1956	1958	1956	1956	
Dwarka . . .	34.0	6.1	20.3	35.6	8.3	64.0	38.3	7.8	42.4	41.1	17.2	24.4	42.2	20.0	7.6	37.8	22.8	230.9	36.4	18.3	273.8	
	1957	1929	1919	1920	1901	1906	1958	1905	1911	1932	1903	1915	1903	1909	1933	1951	1936	1956	1958	1952	1933	
Porbander . . .	34.1	9.4	8.1	38.9	8.7	6.3	40.2	13.2	0	42.8	18.9	2.0	43.3	22.7	0.5	35.0	23.9	129.8	33.9	22.8	231.6	
	1957	1953	1954	1955	1957	1954	1958	1957	..	1956	1955	1957	1955	1957	1956	1953	1957	1958	1958	1958	1958	
Porbander (Aero-drome)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Jamnagar . . .	33.9	1.7	19.8	37.2	2.2	29.5	40.0	8.3	38.6	42.8	12.8	19.3	44.4	16.7	92.7	42.2	17.2	337.8	39.9	19.4	335.0	
	1933	1935	1929	1926	1929	1906	1946	1905	1904	1901	1903	1915	1903	1918	1933	1951	1917	1920	1958	1950	1929	
Rajkot (Acrodrome)	36.1	—0.6	13.2	40.0	1.1	21.3	43.9	6.1	21.6	44.4	10.0	29.2	47.8	16.1	117.3	45.0	20.0	218.9	40.6	19.4	375.2	
	1932	1935	1935	1953	1893	1888	1892	1905	1911	1949	1903	1947	1919	1907	1917	1897	1913	1893	1900	1941	1950	
Surendranagar . . .	33.7	7.2	2.0	38.3	7.4	0	41.7	12.9	0	45.1	13.9	6.1	46.7	22.8	11.9	44.9	22.8	61.2	39.4	22.8	78.7	
	1958	1954	1957	1955	1957	..	1958	1957	..	1958	1955	1958	1955	1956	1957	1958	1955	1955	1954	1956	1954	
Bhavnagar . . .	35.0	0.6	43.7	39.4	2.8	16.5	43.3	8.3	35.8	45.0	12.8	306.6	46.7	19.4	87.4	45.0	20.6	219.7	40.0	21.7	195.6	
	1926	1929	1920	1953	1929	1909	1910	1905	1951	1900	1903	1947	1912	1917	1933	1901	1903	1913	1949	1910	1957	
Bhavnagar (Aero-drome)	33.9	6.1	7.6	37.8	6.7	2.0	41.1	13.1	9.9	43.3	14.4	0	45.0	22.2	5.3	43.3	20.0	61.7	38.3	23.3	195.5	
	1952	1954	1953	1953	1957	1956	1953	1957	1954	1958	1955	..	1955	1957	1956	1953	1954	1957	1952	1956	1957	
Mabuva . . .	33.1	7.8	2.5	41.1	10.6	0	42.8	12.5	11.4	45.0	13.9	1.5	43.9	20.0	0.5	40.6	22.8	116.8	35.6	22.2	167.9	
	1957	1954	1953	1953	1956	..	1956	1957	1954	1954	1955	1956	1956	1957	1953	1955	1956	1955	1956	1956	1957	
Keshod . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Veraval . . .	34.4	4.4	12.9	38.3	4.4	16.8	42.8	9.4	19.1	42.8	13.9	124.7	41.1	18.9	123.2	37.2	20.0	108.0	33.9	21.1	239.6	
	1933	1905	1926	1953	1893	1923	1945	1892	1911	1954	1903	1947	1955	1909	1917	1954	1951	1957	1902	1892	1945	
Konkan																						
Dahanu . . .	34.4	8.3	8.9	37.8	8.9	3.6	38.9	12.8	1.3	40.6	19.3	59.9	38.3	20.6	15.7	38.3	15.0	306.1	35.0	21.1	431.0	
	1957	1945	1948	1949	1950	1954	1946	1945	1958	1955	1957	1947	1944	1947	1956	1951	1948	1953	1947	1947	1956	
Bombay (Colaba) . .	35.0	11.7	49.3	38.3	11.7	41.7	39.7	16.7	34.3	40.6	20.0	37.3	36.1	22.8	126.2	37.2	21.1	408.9	35.6	21.7	304.8	
	1952	1935	1926	1949	1929	1917	1958	1905	1918	1955	1905	1947	1944	1951	1893	1901	1936	1886	1902	1945	1923	
Bombay (Santacruz Aero-drome)	35.6	10.0	0.8	39.4	10.0	8.9	41.7	14.1	0.8	42.2	18.3	1.5	37.5	20.6	54.4	36.7	22.2	305.6	32.6	21.8	310.6	
	1952	1953	1958	1953	1950	1954	1956	1957	1951	1952	1951	1951	1958	1951	1951	1951	1954	1953	1957	1957	1953	
Alibag . . .	35.3	9.4	9.7	37.8	11.7	4.1	39.4	15.6	2.8	40.0	18.9	8.4	36.7	21.7	103.1	34.4	18.3	225.0	31.7	20.0	295.9	
	1958	1934	1948	1943	1950	1940	1945	1945	1940	1955	1937	1947	1958	1943	1938	1932	1945	1951	1949	1953	1953	

X=Highest Maximum Temperature.

N=Lowest Minimum Temperature.

*Observatory started in March 1958.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UPTO 1958 (1878-1879 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temper- ature	Rainfall	
37.2	21.1	228.9	41.1	20.6	389.4	41.1	14.4	257.1	39.4	10.6	148.3	38.9	6.7	42.2	1881	1881	Gujarat—(contd.)
1932	1887	1933	1951	1894	1945	1952	1893	1894	1951	1881	1946	1953	1903	1933			Surat.
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..			Saurashtra and Kutch
38.3	20.0	199.4	42.8	17.8	170.2	42.2	11.1	118.6	37.8	7.2	53.3	34.4	3.3	36.8	1881	1881	Naliya*
1948	1956	1917	1951	1923	1926	1951	1949	1917	1901	1916	1896	1954	1917	1937			Bhuj (P.B.O.)
37.3	22.2	70.4	39.4	19.4	78.0	37.8	13.7	55.9	37.2	9.4	2.0	33.9	4.4	3.6	1954	1954	Bhuj (Aerodrome)
1954	1956	1956	1956	1954	1958	1955	1957	1956	1957	1956	1957	1954	1955	1956			
35.8	23.3	185.9	38.3	22.6	64.8	37.8	18.9	19.1	37.2	15.0	3.8	32.8	9.4	0.8	1955	1951	Kandla.
1958	1956	1956	1957	1957	1953	1955	1955	1958	1957	1956	1957	1953	1955	1957			
34.4	22.8	175.3	35.6	22.8	55.0	38.3	17.3	32.8	34.4	13.9	1.0	31.7	8.3	15.0	1954	1954	Mandvi.
1957	1956	1956	1955	1956	1958	1955	1957	1956	1957	1956	1958	1953	1955	1958			
32.3	21.7	302.3	39.4	22.2	135.9	40.0	16.7	38.1	37.2	12.2	35.1	33.9	8.3	28.5	1901	1901	Dwarka.
1954	1908	1933	1929	1909	1921	1951	1949	1917	1901	1938	1951	1972	1903	1937			
32.9	22.8	89.7	36.1	22.8	94.7	39.4	17.2	50.6	38.2	13.3	82.2	36.7	10.0	4.6	1952	1952	Porbander.
1958	1956	1954	1955	1954	1956	1953	1952	1958	1957	1952	1958	1953	1954	1954			
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..			Porbander (Aerodrome)
..			
37.3	20.6	248.9	41.7	16.1	133.3	40.6	14.4	37.3	37.2	8.9	48.5	34.4	3.9	42.7	1901	1901	Jamnagar.
1954	1924	1954	1951	1923	1947	1952	1954	1915	1901	1938	1918	1955	1930	1929			
37.3	20.6	233.2	40.6	16.7	184.7	41.7	12.2	70.1	38.3	7.2	99.8	36.1	-2.8	22.9	1881	1881	Rajkot (Aerodrome).
1947	1913	1900	1911	1912	1945	1925	1949	1917	19.9	1917	1838	18.6	1903	1929			
36.9	21.7	198.1	38.9	21.9	112.0	38.9	16.1	40.8	37.2	11.1	7.6	34.4	5.0	1.3	1953	1953	Surendranagar.
1958	1956	1953	1957	1957	1958	1957	1954	1958	1953	1956	1957	1953	1955	1957			
38.9	21.7	125.0	41.1	20.6	242.3	41.1	13.3	233.9	38.3	6.1	0.5	35.0	5.0	25.9	1891	1891	Bhavnagar.
1902	1903	1946	1951	1935	1947	1951	19.6	1931	19.8	1938	1936	19.11	1908	19.9			
36.8	22.2	96.3	40.6	21.1	102.9	41.7	17.2	28.5	36.7	12.2	0.5	34.6	9.1	2.5	1951	1951	Bhavnagar (Aerodrome.)
1958	1956	1956	1951	1952	1954	1951	1954	1956	1951	1956	1957	1957	1955	1957			
34.4	21.1	77.2	36.7	19.9	80.0	38.9	15.6	71.1	36.2	13.3	12.2	35.0	9.4	17.3	1952	1952	Mahuva.
1954	1952	1957	1957	1957	1954	1952	1954	1956	1957	1953	1958	1952	1954	1954			
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..			Keshod.
..			
33.3	22.8	270.0	36.7	20.6	277.4	40.0	13.3	173.7	37.8	10.0	89.9	35.6	7.2	25.7	1891	1891	Veraval.
1932	1956	1933	1955	1946	1926	1952	1949	1917	1951	1950	1896	1953	1950	1902			
31.7	20.6	335.0	33.9	21.1	481.0	36.1	17.2	93.5	36.7	15.6	256.5	35.6	11.1	0.5	1944	1944	Konkan
1947	1951	1945	1944	1954	1958	1953	1954	1951	1947	1955	1948	1952	1945	1954			Dahanu.
32.2	21.7	287.0	35.0	20.0	548.1	36.6	20.6	148.6	36.2	17.8	122.7	35.0	12.8	24.4	1881	1881	Bombay (Colaba).
1948	1943	1881	1929	1947	1930	1957	1954	1917	1957	1881	1927	1952	1929	1884			
31.1	19.4	256.0	35.6	21.7	132.8	37.0	16.7	117.1	36.3	13.3	23.1	35.2	10.6	9.1	1949	1949	Bombay (Santa Cruz Aerodrome).
1954	1950	1954	1951	1953	1954	1957	1952	1955	1957	1950	1957	1958	1949	1954			
32.8	21.1	204.0	32.8	21.1	396.2	37.2	18.3	115.8	36.7	15.6	106.7	34.4	13.9	12.5	1931	1931	Alibag.
1932	1949	1954	1951	1947	1949	1936	1954	1938	1941	1950	1948	1957	1949	1933			

R=Heaviest Rainfall in 24 hours ending at 0830 hrs. I. S. T.

..=Information not available

TABLE III (A) EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) ANNUALLY

Sub-division and station	January			February			March			April			May			June			July		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Konkan—(contd.)																					
Harnai . . .	33.4	15.6	8.6	34.0	13.9	1.0	37.2	16.1	0	36.1	17.8	31.5	37.2	20.0	157.0	34.4	16.1	254.8	32.2	17.8	242.6
	1958	1945	1945	1958	1950	1948	1946	1945	..	1949	1950	1955	1955	1950	1956	1953	1945	1951	1948	1950	1948
Ratnagiri . . .	36.7	12.2	23.4	38.3	13.3	32.0	38.9	16.1	31.7	36.1	16.1	25.9	37.8	21.7	91.2	35.0	19.4	309.9	32.8	20.6	304.3
	1912	1935	1838	1920	1901	1917	1922	1910	1900	1938	1905	1937	1883	1913	1893	1913	1939	1953	1900	1919	1900
Devgad . . .	34.4	15.6	12.2	35.0	17.2	1.5	37.2	18.7	12.2	37.2	20.6	23.6	35.0	22.5	119.4	37.2	13.3	276.0	31.7	21.1	210.3
	1952	1945	1947	1952	1950	1958	1948	1957	1947	1956	1953	1947	1954	1958	1949	1948	1945	1958	1957	1954	1948
Vengurla . . .	35.6	14.4	0.3	38.9	12.8	2.8	37.4	15.0	0.3	40.0	20.6	17.0	36.1	22.2	107.7	33.9	20.0	333.3	31.2	21.7	237.7
	1955	1953	1958	1952	1950	1958	1958	1950	1954	1956	1955	1954	1949	1958	1955	1958	1956	1958	1957	1956	1951
Maharashtra																					
Nandurbar . . .	35.9	8.9	43.9	40.6	13.3	0	43.3	16.1	2.5	45.6	18.9	41.2	46.1	21.7	76.2	42.8	22.2	80.0	36.9	21.1	167.5
	1958	1954	1955	1955	1953	..	1956	1955	1954	1958	1955	1958	1958	1956	1956	1953	1956	1953	1958	1952	1958
Jalgaon . . .	35.6	1.7	11.2	40.6	3.9	21.8	43.9	9.4	23.9	47.2	15.6	15.7	47.8	22.2	35.1	46.1	21.7	115.1	39.4	21.1	110.7
	1939	1945	1956	1953	1943	1941	1953	1948	1938	1958	1944	1951	1947	1956	1953	1955	1956	1951	1938	1941	
Malegaon . . .	35.0	0.6	38.1	39.4	-0.6	43.4	45.6	5.6	14.7	44.6	9.4	27.0	46.7	16.7	104.4	44.4	17.8	111.0	37.8	18.3	158.5
	1932	1935	1888	1953	1929	1936	1889	1898	1915	1958	1905	1958	1916	1881	1903	1915	1932	1914	1920	1953	1896
Deolali . . .	32.8	5.0	1.8	37.8	-0.6	1.5	40.0	7.2	7.4	42.8	11.1	24.6	42.2	17.8	57.7	40.0	20.0	49.5	32.8	20.0	157.0
	1950	1954	1958	1953	1950	1954	1953	1957	1955	1958	1955	1958	1955	1955	1951	1955	1952	1957	1951	1951	1952
Aurangabad . . .	37.2	3.9	51.6	37.8	2.2	36.3	42.2	8.9	23.4	45.0	10.0	24.6	45.6	17.2	53.3	43.9	17.2	82.1	37.8	18.3	139.7
	1924	1945	1920	1953	1911	1894	1892	1898	1915	1896	1908	1937	1905	1924	1918	1923	1901	1953	1897	1904	1916
Aurangabad . . . (Chikalthana Aerodrome).	32.2	3.9	3.3	37.2	5.0	3.1	40.0	7.1	20.3	43.6	16.1	7.9	42.6	20.0	30.0	42.2	20.0	94.2	35.0	20.0	84.1
	1955	1954	1955	1954	1957	1952	1955	1957	1954	1958	1956	1954	1958	1952	1956	1953	1954	1955	1952	1956	1953
Khandala . . .	..	..	19.1	..	..	15.2	..	..	1.3	..	..	26.4	..	..	62.2	..	..	267.2	..	..	516.4
	..	..	1940	..	..	1937	..	..	1951	..	..	1937	..	..	1951	..	..	1953	..	..	1958
Ahmednagar . . .	36.1	2.2	51.6	38.9	2.8	42.9	40.6	7.8	88.4	43.1	10.6	71.9	43.3	16.1	119.9	43.3	18.3	177.3	37.2	17.8	174.0
	1897	1945	1941	1897	1911	1894	1934	1892	1938	1958	1926	1937	1919	1917	1915	1920	1907	1931	1955	1944	1911
Parbhani . . .	33.3	4.4	43.4	38.3	6.1	34.8	41.7	11.6	46.5	45.0	17.2	36.8	45.6	21.1	56.6	45.6	20.0	87.9	37.8	20.4	171.5
	1955	1945	1926	1953	1949	1928	1953	1957	1927	1958	1955	1939	1954	1956	1916	1953	1951	1940	1950	1957	1923
Poona . . .	35.0	1.7	22.3	38.9	3.9	16.3	42.8	7.2	35.1	43.3	10.6	51.1	43.3	13.9	82.5	41.7	17.2	97.0	35.6	18.9	130.4
	1938	1935	1948	1953	1934	1892	1892	1908	1954	1897	1903	1896	1889	1888	1927	1897	1920	1906	1915	1920	1958
Poona . . . (Lohagaon Aerodrom).	32.8	8.3	0	37.8	8.6	0	40.0	11.1	42.9	41.7	12.2	19.6	41.7	15.0	59.1	39.5	18.9	83.8	32.8	20.0	103.6
	1952	1954	..	1953	1958	..	1953	1955	1954	1958	1955	1958	1952	1955	1957	1958	1953	1954	1952	1956	1958
Baramati . . .	33.3	8.1	0	36.1	8.6	0	40.0	11.2	6.3	43.2	13.3	22.6	42.8	19.4	33.0	41.9	20.0	70.4	33.4	20.0	37.1
	1955	1958	..	1956	1957	..	1956	1957	1958	1958	1955	1955	1958	1956	1953	1956	1955	1958	1956	1956	1956
Jeur . . .	33.9	5.7	0.5	38.3	5.0	18.5	41.1	10.4	4.8	43.7	15.0	23.6	43.6	20.6	49.0	43.3	18.9	81.5	36.1	18.9	88.1
	1950	1957	1955	1953	1950	1952	1953	1957	1957	1958	1955	1957	1958	1955	1956	1953	1951	1953	1952	1956	1956
Sholapur . . .	36.7	4.4	48.8	39.4	6.1	34.3	43.9	12.2	39.6	44.4	13.9	48.0	45.6	16.1	56.1	44.4	17.2	143.8	38.9	18.3	160.3
	1897	1945	1943	1886	1911	1928	1892	1886	1893	1889	1905	1907	1939	1885	1952	1953	1922	1882	1912	1914	1907
Miraj . . .	33.9	5.0	46.5	37.2	6.7	8.6	40.6	11.2	21.6	42.2	15.0	115.1	42.2	18.9	108.2	42.2	19.4	64.8	35.0	17.2	61.0
	1950	1945	1941	1953	1944	1941	1949	1957	1958	1942	1944	1937	1940	1937	1938	1934	1956	1955	1932	1945	1949
Kolhapur . . .	33.3	8.9	14.7	36.7	10.6	4.3	40.0	12.8	48.5	41.7	15.6	34.5	40.6	18.3	66.0	39.4	18.9	95.0	31.7	18.9	151.6
	1952	1946	1947	1953	1949	1952	1953	1957	1948	1956	1955	1946	1953	1946	1947	1953	1956	1955	1952	1955	1953

X=Highest Maximum Temperature.

N=Lowest Minimum Temperature.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UPTO 1958 (1878-1879 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Tempera-ture	Rainfall	
32.2	20.6	176.0	31.7	21.1	308.6	35.0	19.4	176.5	35.6	18.3	72.6	33.9	18.9	15.2	1944	1944	Konkan—(contd.)
1947	1950	1947	1951	1947	1949	1950	1946	1947	1951	1946	1946	1944	1949	1954	1944	Harnai.	
31.1	21.1	204.2	34.4	20.6	236.7	37.2	17.8	221.0	37.2	15.6	243.8	36.1	14.4	33.8	1881	1881	Ratnagiri.
1939	1931	1885	1896	1898	1938	1888	1903	1938	1918	1955	1912	1896	1954	1931	1881	Devgad.	
31.7	19.4	130.8	32.2	21.1	235.2	35.0	19.4	141.0	36.1	17.2	67.1	34.4	16.1	16.5	1945	1945	Vengurla.
1948	1945	1948	1953	1945	1948	1946	1952	1951	1951	1952	1946	1953	1949	1954	1945	1945	
30.6	21.7	177.6	32.8	21.3	125.5	35.6	17.8	122.4	35.6	14.4	25.4	35.0	10.6	1.5	1949	1949	
1950	1956	1958	1952	1957	1955	1953	1950	1951	1951	1950	1956	1955	1954	1958	1949	1949	
38.9	21.1	62.2	36.1	20.6	124.5	38.9	16.2	70.4	37.2	11.7	10.7	35.0	10.6	4.1	1952	1952	Maharashtra.
1954	1956	1956	1955	1952	1954	1952	1958	1955	1957	1956	1956	1953	1954	1956	1952	Nandurbar.	
37.2	20.0	119.1	38.9	15.6	111.8	38.3	10.0	98.8	36.5	5.6	59.9	35.0	1.7	22.3	1937	1937	Jalgaon.
1947	1942	1942	1951	1942	1937	1951	1952	1943	1957	1950	1946	1953	1937	1947	1937	1937	
37.2	16.1	115.3	38.3	16.1	132.1	40.0	10.6	109.7	36.7	5.6	105.2	35.0	3.3	39.4	1881	1881	Malegaon.
1899	1899	1897	1899	1942	1894	1899	1933	1935	1908	1910	1912	1896	1929	1884	1881	1881	
33.3	19.4	143.3	33.3	17.8	86.9	35.7	9.4	54.6	32.8	6.7	62.5	32.8	5.0	14.0	1950	1950	Deolali.
1950	1956	1956	1955	1954	1954	1957	1954	1956	1957	1955	1958	1953	1954	1954	1950	1950	
36.1	17.2	134.6	36.7	16.1	245.1	37.8	12.2	68.8	35.6	7.2	157.5	34.4	5.0	92.7	1896	1891	Aurangabad.
1950	1935	1903	1896	1901	1891	1911	1903	1901	1896	1910	1946	1896	1902	1942	1891	1891	
33.3	18.3	69.3	33.8	17.8	78.8	35.2	8.3	31.7	33.4	5.6	44.4	32.8	3.9	9.1	1952	1952	Aurangabad (Chikalthana Aerodrome).
1954	1956	1956	1957	1952	1958	1957	1952	1955	1957	1956	1958	1953	1954	1954	1950	1950	
..	..	475.0	308.4	263.7	188.7	16.0	..	1933	Khandala.
..	..	1956	1942	1938	1948	1942	1942	1942	Parbhani.
36.7	16.1	147.3	36.7	14.4	148.8	37.2	10.6	89.1	35.6	5.6	124.7	33.3	3.3	69.1	1891	1891	Ahmednagar.
1899	1913	1957	1912	1896	1902	1899	1914	1943	1898	1892	1948	1953	1926	1942	1891	1891	
36.7	20.0	139.7	35.6	18.9	217.2	36.7	10.0	168.9	33.9	8.3	79.0	32.8	6.7	32.3	1944	1916	
1950	1953	1934	1951	1950	1923	1946	1954	1955	1953	1956	1936	1953	1945	1937	1916	1916	
35.0	17.2	108.7	36.1	16.1	132.3	37.8	11.1	149.1	36.1	7.2	96.8	35.0	4.4	41.1	1881	1881	Poona.
1950	1920	1956	1951	1901	1938	1899	1910	1892	1896	1939	1934	1896	1940	1942	1881	1881	
32.2	17.2	103.6	37.2	15.6	55.1	36.1	12.8	106.9	33.3	9.4	76.2	33.3	7.8	8.1	1950	1950	Poona. (Loihagaon Aerodrome).
1958	1956	1956	1951	1952	1955	1951	1950	1951	1953	1955	1951	1954	1954	1954	1950	1950	
34.5	17.8	106.2	35.6	17.8	105.4	36.2	12.8	75.4	33.1	9.4	46.2	32.2	8.3	14.0	1954	1954	Baramati.
1958	1956	1956	1955	1957	1957	1957	1954	1957	1958	1955	1956	1954	1956	1954	1954	1954	
37.2	17.4	94.2	36.1	17.2	67.8	36.3	12.2	56.1	33.9	8.9	29.7	33.1	6.7	43.2	1950	1950	Jeur.
1950	1957	1958	1951	1956	1954	1957	1952	1956	1951	1955	1956	1958	1956	1954	1950	1950	
37.8	15.0	191.0	37.2	18.3	169.9	38.3	12.8	125.5	36.1	7.8	127.8	34.4	6.7	97.5	1881	1881	Sholapur.
1899	1956	1940	1899	1946	1895	1896	1882	1957	1915	1881	1896	1896	1945	1886	1881	1881	
34.4	17.8	150.9	35.6	15.6	93.7	36.1	12.2	101.3	34.4	8.3	114.1	34.4	7.2	19.8	1931	1931	Miraj.
1941	1949	1932	1951	1935	1946	1942	1937	1956	1958	1950	1955	1941	1954	1933	1931	1931	
32.2	18.9	116.3	35.0	17.8	74.4	34.7	13.9	67.6	33.3	11.1	89.1	32.4	8.9	17.5	1946	1946	Kolhapur.
1950	1956	1956	1951	1957	1956	1957	1952	1953	1951	1955	1955	1958	1956	1947	1946	1946	

R.—Heaviest Rainfall in 24 hours ending at 0830 hrs. I. S. T.

.. = Information not available.

TABLE III (A) EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AND

Sub-division and station	January			February			March			April			May			June			July			
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	
Vidarbha																						
Buldhana	32.8	10.0	30.7	36.7	4.4	1.3	38.9	14.8	26.2	42.2	18.4	11.2	42.2	20.0	30.2	41.7	19.4	77.6	34.4	18.9	122.9	
	1956	1953	1955	1953	1950	1952	1953	1957	1955	1958	1957	1953	1954	1956	1956	1953	1955	1958	1952	1949	1953	
Akola	36.2	3.9	49.0	40.0	2.2	42.2	44.4	5.6	38.6	46.1	11.1	58.7	47.8	18.3	44.7	47.2	20.0	188.0	40.6	20.6	188.5	
	1958	1937	1922	1953	1887	1907	1892	1908	1957	1942	1905	1937	1947	1947	1943	1923	1916	1955	1900	1941	1894	
Amravati	35.0	6.1	59.2	38.9	5.0	51.6	43.9	8.9	51.6	46.1	12.8	66.3	46.7	18.3	47.2	46.7	19.4	155.2	39.4	18.9	230.1	
	1889	1934	1911	1953	1887	1928	1892	1898	1957	1898	1905	1937	1954	1917	1887	1923	1916	1927	1931	1890	1888	
Yeotmal	33.3	9.4	18.3	37.8	7.2	31.2	41.7	14.4	29.7	44.7	17.8	46.7	46.1	20.0	48.3	45.6	20.6	104.4	38.3	20.0	91.7	
	1950	1954	1955	1953	1950	1950	1953	1957	1957	1958	1955	1952	1954	1955	1956	1953	1955	1953	1950	1953	1955	
Nagpur	35.0	3.9	50.3	38.9	5.0	51.6	45.0	8.3	45.0	46.1	13.9	59.4	47.8	19.4	58.4	47.2	20.0	315.0	40.6	19.4	219.2	
	1900	1937	1948	1887	1950	1942	1892	1898	1881	1942	1905	1937	1954	1917	1909	1931	1919	1911	1897	1942	1898	
Gondia	31.7	6.7	42.4	37.2	6.7	48.3	41.7	11.7	34.3	43.5	18.3	25.9	46.1	22.2	13.2	45.6	21.7	216.7	37.2	21.3	141.8	
	1950	1951	1948	1951	1950	1947	1953	1952	1951	1958	1957	1953	1954	1951	1956	1953	1957	1955	1958	1958	1957	
Brahmapuri	31.8	7.5	10.2	36.2	7.8	18.0	39.4	13.5	47.5	44.5	18.6	17.0	45.2	19.7	43.7	46.2	20.5	53.1	36.2	18.7	81.4	
	1958	1958	1958	1958	1957	1957	1958	1957	1957	1958	1957	1957	1958	1957	1957	1958	1957	1957	1958	1958	1958	
Chanda	35.6	2.8	39.4	39.4	3.9	94.2	44.4	7.2	68.8	46.1	11.7	65.3	48.3	18.9	44.5	47.2	20.0	182.1	40.6	17.8	191.3	
	1900	1899	1924	1951	1905	1898	1892	1898	1893	1942	1905	1914	1912	1919	1903	1931	1919	1887	1897	1954	1887	
Sironcha	33.3	7.8	4.3	37.8	10.6	13.5	41.7	13.9	95.0	44.4	21.1	32.4	46.7	21.1	26.4	46.7	22.2	81.3	38.9	21.1	165.3	
	1955	1951	1958	1953	1957	1958	1953	1952	1951	1956	1958	1954	1955	1955	1953	1953	1953	1951	1957	1956		
Coastal Andhra Pradesh																						
Nellore	35.6	15.0	94.2	39.4	16.1	116.8	43.9	17.2	59.2	45.6	20.6	73.7	46.7	21.7	185.9	46.7	21.1	83.8	45.6	22.2	95.3	
	1936	1946	1906	1927	1891	1928	1892	1910	1944	1895	1934	1900	1892	1947	1952	1894	1912	1903	1951	1943	1950	
Ongole	33.9	14.4	27.9	38.3	14.4	8.4	43.3	18.3	52.3	44.4	20.6	16.8	46.1	16.1	102.6	46.1	23.3	71.1	40.0	21.2	80.3	
	1946	1946	1953	1954	1945	1958	1953	1945	1951	1956	1950	1956	1956	1949	1949	1953	1957	1946	1952	1957	1956	
Rentachintala	35.0	10.6	3.8	39.4	12.8	21.3	44.4	15.6	28.5	46.1	18.3	69.1	47.2	18.3	67.3	47.2	21.7	101.6	40.6	21.7	87.6	
	1958	1946	1948	1954	1949	1956	1953	1952	1950	1941	1937	1948	1948	1955	1940	1953	1947	1947	1952	1956	1953	
Gannavaram	34.4	15.6	8.4	37.8	16.1	10.2	43.3	17.2	46.7	44.4	22.6	77.5	46.7	21.1	43.4	46.7	20.6	93.2	39.4	21.5	99.6	
	1952	1955	1956	1954	1956	1952	1953	1952	1957	1956	1957	1953	1956	1955	1953	1951	1956	1952	1957	1956	1956	
Masulipatam	33.3	13.9	76.2	37.2	14.4	96.5	42.2	16.7	150.4	44.4	18.3	101.3	47.8	19.4	82.5	46.1	20.0	133.3	41.7	19.4	115.6	
	1946	1945	1908	1927	1889	1901	1892	1906	1926	1892	1926	1942	1906	1893	1904	1924	1947	1915	1897	1893	1935	
Nidadavolu	33.2	14.4	0.8	35.6	15.0	5.8	37.2	20.0	5.3	42.8	22.8	21.8	46.7	22.8	57.7	46.2	22.9	59.9	34.3	22.1	86.8	
	1958	1956	1957	1956	1956	1956	1956	1956	1957	1956	1957	1956	1956	1957	1957	1958	1958	1956	1957	1957	1958	
Kakinada	32.8	14.4	78.2	37.8	15.6	45.0	38.9	17.2	71.6	42.8	18.9	61.0	46.7	21.1	109.7	47.2	21.7	501.4	41.7	21.1	127.0	
	1950	1946	1921	1896	1918	1893	1934	1906	1905	1947	1942	1937	1934	1917	1914	1923	1940	1941	1897	1938	1947	
Visakhapatnam	33.1	12.8	132.1	36.7	13.3	64.5	38.3	14.4	64.5	38.7	18.3	73.9	43.3	20.0	145.3	43.9	21.1	166.1	38.3	21.7	145.0	
	1958	1956	1908	1922	1956	1901	1956	1952	1926	1957	1930	1925	1953	1904	1955	1906	1953	1929	1899	1904	1951	
Calingapatam	33.9	12.2	25.4	37.8	12.8	83.1	38.9	16.1	84.3	41.7	18.3	63.5	43.9	20.6	307.3	43.9	22.2	188.2	38.9	21.7	205.7	
	1911	1937	1908	1922	1918	1923	1946	1952	1940	1947	1930	1956	1916	1951	1914	1923	1949	1935	1911	1919	1956	
Telangana																						
Ramagundam	33.9	9.4	10.9	38.9	9.4	8.1	42.8	14.4	21.1	44.5	20.0	30.5	47.2	21.1	65.5	47.2	21.7	140.7	40.0	21.1	119.9	
	1957	1953	1953	1951	1949	1958	1953	1952	1951	1958	1956	1956	1948	1949	1957	1953	1955	1958	1950	1950	1956	
Nizamabad	35.6	5.0	59.7	38.3	6.1	72.4	43.3	11.1	43.9	44.4	12.8	76.2	47.2	18.3	71.1	46.1	16.7	246.4	40.4	14.4	298.0	
	1928	1899	1943	1954	1911	1928	1928	1892	1950	1942	1905	1937	1923	1917	1922	1931	1902	1914	1904	1931	1958	

X=Highest Maximum Temperature.

N=Lowest Minimum Temperature.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UPTO 1958 (1878-1879 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Tempera-ture	Rainfall	
35·0	19·4	95·3	32·8	18·8	170·4	33·9	14·4	50·0	32·2	11·7	38·1	31·1	11·1	19·6	1948	1948	Vidarbha
1950	1956	1950	1951	1957	1958	1951	1957	1951	1957	1949	1948	1957	1951	1950	Buldhana.		
37·8	18·3	224·5	40·0	17·2	230·9	40·0	10·0	110·5	36·1	5·6	112·3	36·7	3·9	65·0	1881	1881	Akola.
1950	1944	1900	1899	1904	1945	1899	1889	1887	1899	1912	1936	1896	1883	1885			
36·7	15·6	168·1	38·3	17·2	234·9	39·4	12·8	90·2	35·6	8·9	78·0	33·9	8·3	55·6	1881	1881	Amravati.
1902	1944	1944	1899	1893	1933	1899	1889	1940	1899	1884	1931	1913	1937	1885			
35·6	19·4	165·6	34·4	20·0	101·3	35·4	13·9	85·9	32·8	10·0	8·1	31·7	10·0	13·7	1949	1949	Yeotmal.
1950	1955	1952	1951	1957	1955	1957	1952	1952	1957	1950	1956	1952	1950	1950			
37·8	18·3	200·7	38·9	18·3	182·6	38·3	11·7	164·6	35·6	6·7	81·5	33·9	5·6	45·7	1881	1881	Nagpur.
1899	1939	1895	1899	1904	1883	1899	1952	1936	1899	1912	1946	1941	1936	1884			
34·4	18·3	148·1	34·4	20·6	95·0	35·3	13·3	106·7	33·9	8·9	54·6	31·1	7·2	13·2	1946	1946	Gondia.
1947	1953	1947	1951	1952	1956	1957	1952	1949	1957	1950	1948	1957	1955	1956			
33·5	19·6	63·8	34·6	19·4	137·2	35·6	16·3	37·2	33·1	13·3	54·0	37·2	9·8	0	1957	1957	Brahmapuri.
1958	1957	1958	1957	1957	1958	1957	1957	1958	1957	1958	1958	1957	1958	..			
37·2	18·3	179·6	37·2	18·3	193·0	37·8	11·7	164·1	36·1	7·2	70·9	33·9	3·9	54·6	1881	1881	Chanda.
1954	1954	1951	1899	1904	1945	1899	1882	1936	1950	1950	1881	1933	1883	1884			
36·1	18·9	247·4	35·2	21·7	99·8	36·9	14·4	115·8	33·9	10·6	5·8	32·2	10·0	0	1950	1950	Sironcha.
1950	1954	1953	1957	1951	1957	1957	1954	1957	1957	1958	1958	1958	1953	..			
Coastal Andhra Pradesh																	
40·6	21·7	75·2	41·1	21·7	133·6	39·4	18·9	444·0	36·7	16·7	356·9	35·0	14·4	189·2	1891	1891	Nellore.
1899	1912	1923	1899	1945	1909	1900	1895	1950	1915	1939	1936	1909	1895	1902			
38·3	21·7	66·0	38·9	21·7	232·7	37·8	18·3	184·9	35·0	16·7	258·3	33·9	16·1	87·4	1945	1945	Ongole.
1950	1956	1949	1949	1949	1949	1951	1947	1953	1952	1955	1946	1951	1948	1952			
39·4	21·7	103·0	38·3	21·3	154·9	38·1	16·7	153·2	36·1	12·2	71·6	34·4	10·0	53·3	1936	1936	Rentachintala.
1950	1958	1958	1946	1958	1954	1957	1950	1945	1951	1950	1956	1951	1936	1952			
36·7	22·2	83·8	36·7	18·2	143·3	36·1	18·3	134·1	35·0	16·7	46·0	33·9	15·0	10·7	1951	1950	Gannavaram.
1952	1954	1955	1957	1957	1954	1951	1952	1956	1951	1955	1956	1951	1953	1952			
38·3	21·7	135·6	37·8	20·6	116·6	37·2	18·9	502·4	34·4	13·9	355·6	32·2	14·4	159·3	1881	1881	Masulipatam.
1920	1952	1886	1888	1895	1954	1888	1895	1949	1891	1934	1938	1951	1937	1947			
33·9	22·4	66·5	34·9	22·2	40·9	36·5	21·1	146·3	33·2	15·6	47·5	31·7	13·3	0	1955	1955	Nidadavolu.
1956	1957	1957	1957	1956	1956	1957	1955	1955	1958	1955	1957	1956	1956	..			
37·8	21·7	146·1	37·2	21·7	285·7	37·2	17·2	281·9	33·9	15·6	276·3	32·2	13·9	130·3	1896	1881	Kakinada.
1902	1955	1937	1920	1958	1956	1907	1949	1936	1951	1910	1923	1899	1902	1882			
37·8	21·1	121·4	37·8	22·2	148·6	36·8	17·8	293·3	33·9	15·0	270·5	32·8	12·8	191·3	1896	1901	Visakhapatna
1941	1907	1957	1939	1953	1914	1957	1952	1958	1942	1929	1923	1951	1955	1909			
36·7	22·2	192·5	36·7	22·2	310·6	35·6	16·7	155·5	33·9	13·3	280·4	31·7	12·2	221·7	1911	1906	Calingapatam.
1923	1912	1912	1920	1930	1911	1950	1952	1921	1914	1926	1923	1951	1937	1909			
Telangana																	
36·7	21·7	89·4	37·3	21·7	73·9	38·4	15·6	84·6	35·0	11·1	65·3	33·9	10·6	3·1	1947	1947	Ramagundam.
1949	1956	1953	1958	1951	1947	1957	1954	1947	1949	1952	1949	1956	1952	1952			
37·8	17·2	157·7	37·2	17·2	215·5	38·9	11·7	196·9	35·6	7·2	80·0	35·0	4·4	49·8	1891	1891	Nizamabad.
1899	1901	1944	1920	1903	1929	1951	1921	1939	1926	1929	1936	1920	1897	1918			

R = Heaviest Rainfall in 24 hours ending at 0830 hrs. I. S. T.

.. = Information not available.

TABLE III (A) EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES ($^{\circ}\text{C}$) AND

Sub-division and station	January			February			March			April			May			June			July		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Telangana—(contd.)																					
Mahbubnagar .	32.2	12.7	0.3	36.1	11.7	7.9	40.0	15.6	43.4	42.2	19.2	65.5	43.3	21.1	79.3	43.3	20.6	59.7	36.8	19.4	104.4
	1956	1957	1958	1954	1956	1958	1953	1952	1958	1956	1958	1957	1956	1955	1952	1953	1955	1954	1957	1952	1956
Hyderabad (Begum-pet Aerodrome.)	35.0	6.1	93.2	37.2	8.9	42.9	42.2	13.2	103.1	43.3	16.1	60.7	44.4	19.4	65.0	43.9	17.8	122.7	37.2	19.4	109.2
Hakimpet .	30.6	12.2	0	35.0	13.9	13.2	38.3	16.1	31.2	40.6	18.4	25.9	43.3	18.9	32.5	42.2	18.9	106.9	33.3	19.9	84.3
	1954	1955	..	1954	1956	1958	1956	1958	1958	1956	1957	1956	1956	1957	1955	1953	1954	1955	1953	1957	1957
Hanamkonda .	35.0	8.9	58.4	37.8	10.6	45.7	42.2	15.0	71.1	44.4	17.8	83.6	46.7	17.2	75.7	46.1	21.1	197.6	38.9	17.8	227.8
	1921	1945	1924	1954	1911	1936	1953	1906	1928	1942	1957	1937	1928	1917	1940	1953	1953	1914	1920	1911	1903
Bhadrachallam .	34.5	11.1	11.9	38.3	11.7	2.0	42.8	15.6	25.4	43.9	18.3	30.0	46.7	21.7	35.6	46.8	20.6	78.7	39.4	21.7	73.9
	1958	1957	1958	1954	1956	1952	1953	1952	1954	1956	1956	1956	1956	1955	1956	1958	1954	1956	1952	1954	1956
Khammameth .	35.0	9.4	11.4	38.9	11.7	39.6	43.3	16.1	47.0	45.0	18.9	63.0	47.2	21.1	46.5	46.7	21.7	92.7	39.4	21.1	299.7
	1950	1946	1941	1954	1943	1946	1953	1952	1944	1941	1945	1945	1947	1948	1948	1953	1950	1953	1952	1948	1954
Rayalaseema																					
Arogyavaram .	31.6	11.7	19.3	33.9	11.7	22.6	37.2	12.8	18.0	38.3	18.3	50.0	38.9	15.6	80.5	37.2	18.9	69.6	34.4	16.7	100.1
	1958	1956	1947	1954	1947	1950	1953	1955	1957	1956	1957	1956	1947	1946	1951	1953	1957	1958	1946	1952	1954
Cuddapah .	37.8	11.7	84.8	40.6	14.4	51.6	43.3	17.8	131.3	45.0	17.8	116.6	46.1	19.4	115.1	45.0	17.8	152.4	40.6	17.2	103.9
	1897	1912	1896	1897	1948	1901	1903	1935	1915	1906	1907	1898	1906	1896	1940	1923	1944	1957	1897	1943	1894
Anantapur .	34.1	12.2	5.1	37.2	13.3	10.9	40.6	15.0	25.9	42.2	18.3	67.1	42.2	18.9	76.5	41.7	20.6	59.9	36.7	21.1	43.2
	1958	1958	1947	1948	1947	1947	1953	1951	1951	1956	1950	1956	1953	1951	1955	1953	1953	1957	1952	1956	1953
Kurnool .	36.1	8.3	41.1	38.9	11.1	66.8	41.7	12.8	50.0	44.4	16.1	42.2	45.6	19.4	165.6	44.4	20.0	81.3	38.3	20.6	132.1
	1897	1891	1915	1899	1943	1928	1925	1921	1893	1896	1905	1957	1921	1955	1952	1898	1935	1901	1915	1903	1893
Madras State																					
Palayamcottai .	33.3	18.5	54.6	36.2	20.0	53.1	41.7	21.1	83.3	41.7	22.2	74.9	42.2	22.8	47.0	42.2	21.7	10.7	38.3	23.3	34.3
	1957	1957	1951	1957	1956	1950	1953	1956	1954	1956	1955	1947	1953	1956	1949	1953	1955	1957	1954	1953	1949
Tuticorin .	33.3	18.9	21.6	31.1	18.3	2.3	33.3	21.1	62.2	38.3	22.2	35.1	41.1	21.7	33.3	38.9	21.7	11.4	37.9	23.3	21.1
	1955	1956	1956	1958	1956	1958	1958	1956	1957	1956	1955	1955	1956	1955	1955	1958	1956	1956	1958	1954	1954
Pamban .	33.3	20.0	127.5	33.3	19.4	88.9	35.0	20.6	63.0	37.2	20.6	81.3	36.7	21.1	102.6	37.2	20.6	55.6	35.0	21.7	130.8
	1902	1956	1902	1906	1939	1902	1953	1899	1938	1930	1949	1954	1923	1891	1930	1913	1897	1940	1921	1957	1916
Mathuraj .	34.4	15.6	152.4	38.3	16.1	188.0	41.7	17.2	100.3	41.7	19.4	166.4	41.7	17.8	99.6	42.2	17.8	105.4	40.6	19.4	124.5
	1936	1907	1921	1906	1884	1929	1882	1909	1947	1935	1909	1891	1956	1920	1882	1935	1897	1927	1884	1891	1893
Mathuraj (Aerodrome)*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Nagapattinam .	31.7	16.1	245.1	35.6	15.6	125.0	40.0	16.7	126.5	41.7	20.0	151.6	42.8	20.6	164.1	41.7	20.6	79.3	41.7	21.7	113.0
	1899	1912	1923	1898	1884	1938	1953	1894	1923	1908	1894	1931	1898	1901	1930	1884	1882	1935	1898	1936	1916
Tiruchirapalli .	35.6	14.4	114.8	40.0	13.9	137.9	42.2	15.6	80.8	42.8	18.3	160.5	43.3	19.4	183.1	43.9	20.0	73.4	41.1	21.7	94.7
	1925	1884	1909	1906	1884	1891	1892	1896	1906	1896	1937	1889	1896	1955	1930	1888	1911	1894	1921	1951	1916
Coimba Ttore .	35.0	11.7	141.5	36.7	12.8	64.8	38.9	15.6	83.8	40.0	17.8	54.9	39.4	18.3	85.6	38.3	18.3	132.6	35.6	16.7	103.6
	1887	1912	1900	1899	1910	1922	1900	1930	1915	1906	1899	1954	1952	1893	1930	1895	1893	1941	1898	1911	1924
Coimbatore (Peelamedu Aerodrome) from Sa'lem .	35.9	12.2	14.2	35.6	14.4	49.0	38.3	15.6	17.0	38.9	18.3	111.0	39.4	15.6	69.8	35.4	18.3	23.4	33.5	16.1	39.1
	1957	1949	1954	1954	1953	1950	1955	1949	1951	1956	1949	1958	1952	1949	1957	1958	1949	1956	1958	1949	1949
Kallakuric .	33.4	15.0	29.7	37.2	15.6	52.8	41.7	17.2	51.3	41.7	20.6	21.1	42.8	20.6	165.9	41.4	21.7	66.3	40.0	21.7	108.7
	1958	1950	1956	1950	1950	1950	1953	1951	1950	1956	1950	1955	1956	1957	1958	1956	1956	1952	1951	1955	1955

*Observatory started from October 1958.

X=Highest Maximum Temperature.

N=Lowest Minimum Temperature.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UPTO 1958 (1878-1879 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temper- ature	Rainfall	
34.4	20.0	69.3	34.4	19.4	79.0	35.1	16.1	68.6	32.7	12.8	32.5	31.7	12.2	1.3	1952	1952	Telangana—(contd.)
1953	1956	1957	1952	1954	1955	1957	1952	1952	1957	1955	1958	1953	1956	1956	1952	Mahbubnagar.	
36.1	19.4	190.5	36.1	17.8	153.2	36.7	13.3	117.1	33.9	7.8	95.5	33.3	7.2	44.5	1891	1896	Hyderabad (Begumpet Aerodrome.)
1950	1955	1954	1927	1942	1908	1896	1954	1903	1909	1939	1927	1930	1945	1918			
32.8	19.4	141.2	35.6	17.8	121.7	31.7	15.0	67.3	30.0	12.8	28.7	31.2	12.8	8.4	1952	1952	Hakimpet.
1954	1958	1955	1956	1954	1954	1954	1954	1957	1958	1955	1956	1957	1955	1954			
37.2	19.4	190.5	38.3	19.4	304.8	37.8	15.0	136.4	34.4	9.4	92.7	33.9	8.3	42.4	1901	1901	Hanamkonda.
1920	1905	1924	1920	1904	1908	1920	1952	1957	1920	1904	1916	1920	1902	1929			
35.6	21.1	83.8	36.3	22.1	58.7	37.6	15.6	68.6	34.1	12.2	44.5	32.8	10.0	40.4	1952	1952	Bhadrachallam.
1952	1952	1955	1957	1957	1952	1957	1952	1953	1957	1953	1956	1958	1956	1952			
36.1	21.1	107.2	37.2	20.6	152.4	37.4	16.7	130.8	33.9	11.7	86.4	33.3	10.0	17.8	1941	1941	Khammameth.
1950	1947	1950	1957	1942	1947	1957	1952	1941	1951	1941	1946	1951	1945	1947			
33.9	81.1	61.4	33.9	16.1	88.7	32.8	15.0	157.7	31.1	12.2	51.8	29.4	11.7	72.4	1945	1945	Rayalaseema
1951	1958	1958	1952	1949	1956	1948	1947	1954	1947	1950	1946	1951	1951	1946			Arogyavaram.
40.0	19.4	176.0	39.4	19.4	173.5	38.9	16.7	270.4	36.1	13.9	104.7	35.6	11.7	85.1	1891	1881	Cuddapah.
1899	1921	1910	1907	1920	1906	1922	1943	1958	1927	1939	1943	1930	1945	1883			
36.7	21.2	77.5	36.1	19.4	100.6	35.0	15.6	78.5	34.4	12.8	99.3	32.2	12.2	22.6	1946	1946	Anantapur.
1949	1957	1949	1957	1954	1953	1950	1950	1946	1951	1950	1948	1958	1951	1952			
37.8	20.6	121.9	37.8	19.4	200.1	38.3	13.9	146.3	36.1	10.0	80.5	34.4	6.7	71.1	1891	1886	Kurnool.
1899	1929	1955	1899	1892	1888	1898	1950	1916	1896	1950	1903	1929	1902	1906			
38.9	23.3	57.0	40.0	22.8	40.6	38.3	21.7	64.5	36.1	21.1	93.5	35.6	20.0	88.9	1950	1945	Madras State
1953	1954	1958	1952	1954	1946	1955	1956	1948	1953	1955	1953	1952	1956	1946			Palayamcottai.
37.8	23.9	14.7	37.9	23.9	12.2	36.7	21.7	167.4	34.4	20.6	134.6	31.7	19.4	188.2	1954	1954	Tuticorin.
1957	1956	1956	1958	1955	1955	1958	1957	1957	1955	1954	1956	1955	1955	1955			
34.4	22.2	73.9	35.0	20.6	108.5	35.0	21.1	133.6	33.3	21.6	137.7	33.9	18.9	218.7	1891	1891	Pamban.
1945	1954	1937	1940	1930	1901	1940	1891	1932	1944	1957	1896	1906	1953	1955			
40.0	20.6	112.3	39.4	20.0	154.2	38.3	18.9	128.8	36.1	17.2	169.7	35.0	16.7	165.6	1881	1881	Mathurai.
1891	1912	1910	1928	1908	1946	1934	1911	1909	1948	1909	1921	1951	1920	1955	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..			Mathurai (Aerodrome)*
40.6	20.6	125.7	37.8	20.6	78.7	37.2	20.6	396.2	35.0	16.7	365.5	33.9	16.7	366.8	1881	1881	Nagapattinam
1898	1913	1900	1907	1897	1921	1908	1891	1930	1948	1951	1918	1909	1886	1931			
40.6	20.6	110.0	40.6	20.6	84.3	38.9	18.9	319.0	36.7	16.7	298.2	35.6	14.4	135.6	1881	1881	Tiruchirapalli.
1888	1935	1944	1929	1908	1897	1906	1891	1930	1923	1884	1939	1926	1883	1931			
35.6	17.2	59.4	35.6	17.8	75.7	36.1	15.0	107.4	34.4	13.9	104.7	35.0	12.2	109.7	1881	1881	Coimbatore.
1889	1921	1916	1914	1954	1912	1918	1911	1891	1892	1901	1957	1899	1883	1930			
33.3	16.1	52.1	35.6	16.7	116.8	35.0	16.1	50.8	32.8	14.4	81.3	32.2	12.8	37.6	1948	1948	Coimbatore. (Peelamedu Aerodrome).
1958	1949	1950	1955	1948	1950	1949	1948	1957	1952	1954	1957	1950	1951	1954			
38.9	19.4	176.3	38.9	18.9	250.2	37.8	15.6	165.6	35.6	12.8	121.9	35.6	12.8	131.3	1881	1881	Salem.
1885	1909	1939	1891	1887	1885	1918	1911	1916	1948	1901	1882	1926	1945	1884			
38.3	21.1	73.9	38.4	20.0	83.6	37.2	18.9	113.0	36.7	16.1	125.2	33.3	16.1	83.3	1948	1948	Kallakurichi.
1951	1956	1951	1957	1956	1956	1951	1950	1956	1948	1954	1948	1950	1954	1952			

* R=Heaviest Rainfall in 24 hours ending at 0830 hrs. I. S. T.

..=Information not available.

TABLE III (A) EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES ($^{\circ}\text{C}$) AND

Sub-division and station	January			February			March			April			May			June			July			
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	
Madras State - (contd.)																						
Cuddalore . .	31.7	13.3	130.3	36.1	14.4	119.4	38.9	16.1	183.1	42.2	19.4	120.4	43.3	21.1	572.0	42.8	21.1	82.5	40.6	18.9	100.8	
	1951	1894	1920	1898	1918	1930	1953	1898	1933	1908	1939	1939	1953	1950	1943	1905	1898	1921	1895	1911	1949	
Tirupattur*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Vellore . .	33.9	11.7	69.1	37.8	12.8	67.3	40.6	14.4	49.8	43.9	17.8	83.1	44.4	19.4	214.4	42.8	20.6	94.2	40.6	20.6	125.2	
	1936	1946	1922	1945	1922	1906	1953	1934	1915	1908	1950	1951	1906	1902	1943	1935	1922	1938	1902	1910	1910	
Tambaram (Aerodrome) [†]	
Madras . .	32.8	13.9	212.9	36.7	15.0	123.2	40.6	16.7	64.5	42.8	20.0	96.3	45.0	21.1	214.9	43.3	20.6	59.2	41.1	21.7	116.3	
	1894	1905	1915	1927	1934	1929	1953	1908	1925	1908	1939	1945	1910	1886	1943	1948	1909	1931	1915	1947	1910	
Madras (Nungambakkam).	30.8	16.1	62.7	35.0	16.7	27.9	40.0	18.3	2.8	41.1	21.1	100.3	42.2	21.1	244.3	42.2	22.7	30.7	39.4	22.2	68.3	
	1958	1950	1955	1950	1951	1955	1953	1954	1950	1956	1950	1951	1953	1952	1952	1953	1957	1956	1951	1954	1954	
Coastal Mysore																						
Karwar . .	36.1	14.1	0.8	36.6	15.6	0	36.1	17.7	16.8	38.9	21.0	28.7	34.4	22.4	173.7	32.7	20.6	199.4	30.0	21.1	161.0	
	1954	1957	1958	1957	1953	..	1954	1957	1954	1956	1957	1954	1958	1958	1955	1958	1958	1953	1958	1953	1953	
Honavar . .	36.1	15.6	18.5	37.2	15.6	1.5	37.8	18.8	19.8	35.0	20.6	62.0	35.0	21.1	238.5	33.9	21.1	292.6	32.2	21.1	227.3	
	1946	1946	1943	1943	1947	1947	1948	1958	1954	1956	1951	1956	1941	1950	1955	1948	1954	1946	1949	1956	1953	
Mangalore . .	36.1	16.7	40.6	37.8	16.7	36.1	37.3	18.3	82.8	35.6	20.0	117.1	36.7	18.9	360.9	34.4	20.0	252.0	31.7	20.6	268.2	
	1957	1911	1943	1920	1911	1917	1958	1911	1946	1921	1954	1939	1921	1911	1909	1923	1920	1897	1954	1931	1900	
Mangalore . . (Bajpe Aerodrome)	36.6	17.3	0	35.6	20.1	0	37.7	20.1	0	35.6	22.2	10.2	34.6	22.2	76.5	33.9	20.8	204.8	30.2	21.2	207.8	
	1957	1958	..	1958	1957	..	1958	1957	..	1958	1957	1958	1957	1958	1958	1958	1958	1958	1958	1958	1957	
Mysore (North)																						
Bidar . .	33.9	3.9	51.3	37.2	9.4	29.2	41.7	12.8	36.3	42.2	12.2	110.5	43.3	6.7	86.9	42.8	10.0	184.9	36.1	11.1	245.9	
	1925	1901	1906	1926	1950	1928	1910	1925	1938	1946	1918	1907	1931	1918	1943	1953	1918	1943	1924	1900	1955	
Gulbarga . .	36.1	6.7	42.4	38.3	11.1	57.1	42.8	12.8	72.6	43.9	13.3	79.3	45.0	18.3	124.7	45.0	12.8	144.8	37.2	17.2	108.5	
	1897	1937	1922	1903	1911	1929	1892	1910	1938	1923	1902	1907	1912	1892	1952	1923	1910	1928	1920	1920	1897	
Bijapur . .	39.4	7.2	89.1	41.1	8.9	23.6	41.1	13.3	39.9	42.2	16.1	66.0	42.8	17.8	90.2	42.2	17.2	51.1	36.7	16.1	102.1	
	1948	1945	1922	1943	1930	1928	1910	1910	1938	1931	1905	1933	1951	1940	1956	1923	1903	1957	1901	1902	1953	
Belgaum** . .	33.3	7.2	48.3	37.2	6.7	24.9	39.4	10.0	39.9	39.5	12.8	68.6	40.6	15.6	129.5	37.2	16.1	137.4	31.7	17.2	192.8	
	1929	1946	1906	1892	1901	1956	1892	1957	1887	1957	1955	1892	1892	1917	1955	1953	1912	1939	1902	1912	1943	
Belgaum (C.T.O.)	32.0	9.9	0	34.6	11.7	40.9	37.2	10.4	33.5	39.4	12.8	69.1	38.6	18.2	129.5	32.2	17.7	132.3	27.2	17.8	162.6	
	1957	1957	..	1957	1956	1956	1957	1956	1956	1955	1956	1957	1958	1955	1955	1958	1955	1955	1955	1958	1958	
Belgaum (Samre Aerodrome)	32.8	10.6	0	36.0	10.6	15.5	38.3	9.4	14.0	40.0	14.4	30.2	39.4	17.2	63.7	38.3	18.3	94.2	30.0	18.3	112.0	
	1956	1956	..	1957	1954	1956	1953	1957	1958	1956	1955	1954	1953	1955	1953	1956	1955	1953	1956	1956	1958	
Gadag . .	34.4	11.1	21.1	37.2	11.1	16.8	40.0	15.0	61.7	41.1	17.2	53.3	41.7	18.9	81.8	40.6	19.4	68.8	34.4	18.9	54.4	
	1958	1951	1935	1948	1950	1937	1953	1940	1948	1941	1935	1957	1939	1952	1943	1953	1956	1944	1951	1934	1932	
Raichur . .	35.6	10.0	49.8	38.3	12.8	49.3	42.8	16.7	23.9	43.3	16.1	95.8	45.6	18.3	87.9	43.3	16.1	118.1	38.3	17.8	87.1	
	1897	1899	1926	1897	1929	1923	1892	1936	1955	1927	1936	1901	1928	1927	1952	1898	1896	1901	1915	1899	1907	
Mysore (South)																						
Bellary . .	36.7	10.6	46.2	39.4	12.2	59.9	42.8	14.4	26.7	43.9	16.1	77.0	43.9	18.3	162.3	42.2	18.9	85.3	38.3	19.4	102.9	
	1897	1891	1884	1897	1891	1917	1892	1885	1930	1909	1905	1956	1897	1890	1940	1915	1956	1915	1915	1930	1953	
Chitaldrug . .	33.9	11.1	104.1	36.1	13.3	88.9	38.9	16.1	17.8	39.4	17.2	105.7	41.7	16.7	181.6	37.8	17.2	118.4	34.4	19.9	114.8	
	1900	1918	1918	1931	1947	1944	1925	1955	1915	1941	1904	1956	1931	1951	1955	1935	1906	1897	1932	1957	1910	
Shimoga . .	33.3	9.5	1.0	37.2	10.6	2.3	38.9	11.7	29.2	38.3	17.8	114.5	38.3	18.3	89.4	36.1	18.3	78.6	31.7	19.4	111.0	
	1952	1957	1953	1953	1953	1956	1953	1951	1955	1957	1951	1956	1953	1954	1957	1953	1956	1958	1952	1956	1953	

*Observatory started from October 1958.

†Observatory started from August 1958.

X=Highest Maximum Temperature.

N=Lowest Minimum Temperature.

**Observatory closed from September 1958.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UPTO 1958 (1878-1879 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Tempera-ture	Rainfall	
39.4	20.6	134.6	38.3	20.0	135.6	38.9	18.9	208.3	35.0	16.7	309.9	35.0	11.1	426.5	1891	1891	Madras State—(contd.)
1923	1899	1892	1891	1899	1911	1899	1899	1895	1915	1901	1913	1895	1933	1931			Cuddalore.
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Tirupattur*
39.4	21.1	106.2	38.3	20.0	122.9	37.8	15.6	170.9	35.0	13.9	299.0	33.9	12.2	152.9	1901	1901	Vellore.
1901	1952	1909	1908	1936	1921	1954	1911	1943	1952	1921	1930	1909	1950	1901			Tambaram (Aerodrome)†
40.0	20.6	91.7	38.9	20.6	100.3	38.9	16.7	233.7	34.4	15.0	236.2	32.8	13.9	261.6	1881	1881	Madras.
1918	1935	1950	1883	1884	1881	1920	1889	1888	1952	1901	1922	1909	1895	1901			
38.9	21.7	92.2	37.8	22.2	104.9	36.7	20.6	126.3	35.0	16.7	164.6	31.7	16.1	113.8	1949	1949	Madras (Nungambakkam).
1953	1957	1955	1952	1956	1956	1951	1952	1958	1951	1954	1951	1951	1949	1952			
29.6	21.7	136.7	30.6	21.1	118.9	34.4	18.3	175.3	35.0	15.6	71.6	33.9	14.4	5.8	1952	1952	Coastal Mysore
1958	1955	1955	1955	1954	1955	1958	1952	1954	1953	1952	1955	1957	1956	1952			Karwar.
31.8	19.4	152.9	32.2	20.6	127.5	37.2	18.3	132.1	36.7	15.6	65.8	37.2	16.1	25.1	1939	1939	Honavar.
1957	1955	1940	1951	1950	1954	1940	1950	1944	1941	1950	1957	1949	1945	1947			
32.2	20.6	232.4	31.7	21.1	184.7	34.4	20.0	181.6	35.6	18.3	112.1	35.0	16.7	153.2	1911	1881	Mangalore.
1932	1911	1931	1955	1950	1900	1941	1933	1913	1941	1950	1928	1953	1950	1933			
29.4	20.9	89.9	30.3	21.2	64.2	33.2	21.1	70.4	33.6	19.0	51.0	34.6	19.4	2.0	1957	1957	Mangalore. (Bajpe Aerodrome).
1958	1957	1957	1957	1958	1958	1957	1958	1958	1957	1957	1958	1957	1958	1958			
36.1	9.4	144.3	36.7	8.9	203.2	36.7	8.3	128.3	36.1	6.1	138.4	32.8	2.8	81.8	1896	1896	Mysore (North)
1924	1900	1947	1924	1918	1949	1901	1900	1903	1918	1900	1896	1923	1918	1906			Bidar.
37.8	18.3	100.3	37.2	17.8	147.3	37.8	10.0	147.3	35.6	7.8	64.8	34.4	5.6	66.5	1891	1891	Gulbarga.
1899	1920	1910	1926	1954	1928	1899	1905	1893	1940	1945	1948	1920	1945	1906			
35.6	16.7	121.2	36.7	16.1	143.8	37.2	12.2	102.4	35.0	8.3	113.0	33.3	6.7	34.5	1896	1896	Bijapur.
1902	1906	1954	1896	1901	1949	1896	1897	1958	1896	1904	1922	1936	1897	1942			
31.7	15.7	279.4	33.9	15.0	106.7	33.3	12.2	101.6	32.8	9.4	101.1	31.7	8.9	165.1	1881	1881	Belgaum.**
1932	1957	1914	1886	1902	1937	1896	1906	1957	1918	1955	1917	1941	1951	1902			
29.9	17.8	110.0	30.6	16.3	55.1	33.2	15.3	82.5	33.0	9.4	44.2	31.1	8.9	0	1955	1955	Belgaum (C.T.O.).
1958	1956	1956	1955	1957	1955	1958	1958	1955	1958	1955	1957	1956	1956	..			
28.9	15.6	86.4	30.6	16.0	27.2	31.6	13.9	91.4	30.0	10.6	59.6	31.1	7.8	2.0	1952	1952	Belgaum (Sambre Aerodrome).
1954	1956	1956	1955	1957	1955	1957	1954	1957	1957	1955	1958	1952	1954	1958			
34.4	18.7	80.0	37.8	17.2	95.0	34.5	15.6	171.5	37.2	12.2	82.0	32.8	11.7	56.4	1931	1931	Gadag.
1948	1957	1957	1951	1952	1931	1958	1950	1947	1947	1939	1956	1953	1948	1933			
37.8	17.2	107.7	38.3	19.4	130.8	37.2	15.6	158.7	35.0	11.7	87.6	36.1	10.0	52.1	1891	1896	Raichur.
1915	1908	1914	1897	1948	1949	1920	1943	1916	1920	1924	1919	1899	1945	1903			
37.8	19.4	105.7	37.8	19.4	127.5	38.9	15.0	111.3	37.6	11.7	162.1	35.6	10.6	33.5	1881	1881	Mysore (South)
1883	1933	1950	1913	1919	1956	1896	1889	1904	1957	1910	1903	1913	1926	1925			Bellary.
32.8	18.4	109.2	35.0	15.0	95.5	33.9	15.6	132.1	32.8	8.3	87.4	32.8	8.3	109.2	1896	1896	Chitaldrug.
1932	1957	1939	1905	1910	1933	1905	1943	1930	1931	1945	1925	1930	1945	1933			
30.4	16.1	49.8	33.3	16.1	45.7	31.7	11.7	64.4	33.3	8.3	55.1	32.2	8.9	43.4	1950	1950	Shimoga.
1958	1954	1953	1951	1952	1950	1958	1952	1958	1953	1950	1956	1958	1951	1952			

TABLE III (A) EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AND

Sub-division and station	January			February			March			April			May			June			July		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Mysore (South)— (contd.).																					
Balehonnur . .	32.8 1953	10.0 1946	8.4 1947	32.8 1951	11.1 1940	32.3 1952	35.0 1949	12.2 1940	58.7 1936	35.0 1950	13.9 1952	102.6 1956	34.4 1942	15.6 1952	218.4 1955	32.8 1953	15.6 1943	172.7 1941	28.9 1945	13.9 1955	219.2 1953
Hassan . .	32.2 1955	7.8 1899	59.7 1921	35.0 1906	8.3 1898	50.3 1941	36.7 1934	9.4 1898	57.9 1954	37.2 1942	14.4 1905	72.9 1899	37.8 1906	14.4 1923	143.8 1903	34.4 1953	16.1 1936	94.5 1941	31.1 1905	15.0 1918	82.5 1929
Mysore . .	32.8 1936	11.1 1953	26.4 1926	36.1 1931	12.2 1946	59.4 1917	37.8 1931	13.3 1933	47.5 1923	38.3 1931	16.1 1918	133.3 1921	37.8 1936	15.6 1904	184.4 1957	37.2 1926	15.0 1936	68.6 1915	33.3 1899	17.2 1956	71.6 1918
Bangalore (Central Observatory). .	32.2 1925	7.8 1884	65.8 1908	34.4 1926	9.4 1884	67.3 1901	37.2 1925	11.1 1884	50.8 1911	38.3 1931	14.4 1894	90.7 1939	38.9 1931	16.7 1945	153.9 1909	37.8 1926	16.7 1890	101.6 1891	33.3 1914	16.1 1882	105.4 1949
Bangalore (Aerodrome). .	31.2 1958	11.7 1956	13.0 1958	34.4 1954	12.2 1950	28.5 1950	36.1 1953	11.7 1950	18.5 1954	37.2 1956	17.2 1950	58.9 1953	36.7 1956	16.7 1949	68.6 1952	35.6 1953	16.7 1950	70.6 1949	32.2 1952	16.1 1953	66.3 1952
Kerala (Including Laccadives).																					
Kozhikode . .	35.6 1952	17.2 1913	104.4 1909	35.6 1952	16.1 1925	150.1 1945	35.0 1954	19.4 1896	83.3 1936	35.6 1952	21.1 1938	143.3 1899	37.2 1920	20.0 1937	268.5 1932	33.9 1948	20.6 1956	250.2 1941	32.2 1931	21.1 1956	264.2 1922
Palghat. .	36.4 1958	15.6 1946	31.5 1948	38.9 1954	18.9 1954	29.7 1952	40.6 1956	20.6 1951	78.7 1948	41.7 1950	20.6 1943	90.4 1954	39.4 1952	20.6 1955	236.2 1957	35.6 1948	20.6 1956	99.1 1955	32.2 1945	20.6 1956	107.7 1949
Fort Cochin . .	33.3 1955	17.8 1929	133.3 1921	33.9 1945	19.4 1932	105.4 1899	33.9 1949	21.1 1954	101.9 1922	33.9 1957	21.7 1943	160.5 1954	33.3 1952	21.1 1955	253.2 1957	32.7 1948	20.6 1956	185.4 1955	31.7 1958	21.1 1943	213.9 1910
Cochin (Naval Air Station). .	33.4 1958	19.1 1957	28.8 1957	33.3 1958	21.1 1956	73.7 1956	34.4 1958	22.8 1956	19.1 1958	34.2 1958	21.7 1956	177.0 1956	34.0 1957	22.2 1958	140.7 1957	32.8 1958	21.7 1956	170.5 1958	31.4 1958	20.6 1956	110.7 1957
Alleppey . .	35.0 1957	18.3 1957	38.1 1951	35.0 1956	20.0 1953	59.7 1947	36.7 1949	21.1 1955	69.9 1947	35.0 1946	21.1 1948	274.3 1950	34.4 1952	20.6 1955	138.0 1958	34.4 1948	21.1 1956	227.3 1948	31.7 1953	20.6 1950	150.6 1949
Punalur . .	36.1 1957	15.7 1957	44.5 1958	37.6 1957	17.4 1957	14.2 1958	37.6 1958	17.9 1957	39.9 1958	37.7 1957	20.2 1957	61.0 1957	37.1 1957	22.1 1958	80.2 1957	33.8 1958	21.3 1958	110.4 1957	32.9 1950	21.0 1950	88.6 1957
Trivandrum . .	34.4 1957	18.9 1950	52.1 1918	35.0 1955	18.9 1946	88.1 1927	35.6 1953	20.6 1956	78.7 1954	35.0 1958	21.7 1956	129.8 1937	35.2 1957	21.7 1958	277.9 1957	34.4 1957	20.0 1958	154.7 1958	31.7 1957	21.1 1951	151.6 1910
Trivandrum (Aerodrome), Arabian Sea Islands . .	33.9 1955	18.3 1956	8.6 1956	32.8 1957	18.3 1956	47.2 1957	35.0 1956	20.0 1956	43.2 1954	34.4 1958	21.1 1956	82.3 1956	34.3 1957	22.2 1956	65.0 1957	32.4 1958	21.1 1956	94.2 1958	32.2 1956	21.7 1956	52.3 1957
Minicoy. .	32.8 1948	17.8 1953	126.2 1926	32.2 1948	17.2 1946	57.1 1944	32.8 1941	19.4 1955	54.6 1936	35.6 1942	21.7 1950	121.2 1950	36.7 1932	21.7 1956	238.5 1949	33.9 1935	22.2 1945	148.6 1926	31.7 1953	21.1 1938	154.9 1929
Amini Divi . .	36.7 1950	18.3 1912	74.2 1918	35.0 1958	19.4 1923	18.0 1902	37.2 1950	20.6 1950	32.0 1923	37.5 1958	20.0 1923	121.9 1901	37.2 1947	21.7 1941	161.0 1933	35.9 1958	21.1 1930	211.1 1909	33.3 1945	21.7 1910	180.3 1907
Hill Stations excluding Kashmir																					
Walong . .	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..
Kohima . .	18.9 1954	5.0 1956	21.6 1957	22.2 1954	5.0 1956	14.7 1954	26.7 1957	7.1 1957	36.1 1953	32.2 1956	9.4 1957	33.6 1955	31.7 1957	12.8 1952	74.9 1956	28.9 1958	15.0 1953	105.9 1957	28.9 1952	15.6 1956	74.9 1954
Aijal . .	25.0 1954	3.9 1945	42.4 1945	27.8 1942	3.9 1950	32.5 1946	31.1 1945	5.6 1947	72.6 1946	33.3 1938	10.6 1953	76.2 1951	33.1 1944	13.3 1952	131.8 1958	31.1 1938	9.4 1944	85.1 1944	30.6 1945	14.4 1941	148.6 1946
Shillong . .	21.1 1944	—2.8 1937	52.3 1957	24.4 1952	—2.8 1950	41.1 1914	28.9 1924	—0.6 1906	189.5 1929	30.0 1954	6.7 1946	117.9 1932	30.1 1957	5.6 1941	169.7 1914	29.1 1958	11.7 1930	415.3 1934	28.3 1945	15.0 1910	205.7 1952

N=Lowest Minimum Temperature.

X=Highest Maximum Temperature.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UPTO 1958 (1878-1879 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temper- ature	Rainfall	
29·4	16·1	179·8	30·6	13·3	83·3	29·4	12·8	85·6	29·4	10·0	55·9	30·0	8·3	56·9	1931	1931	Mysore (South) (contd.)
1947	1951	1949	1936	1935	1955	1951	1952	1943	1951	1934	1932	1945	1937	1937			Balehonnur.
31·1	15·6	79·8	32·2	13·9	90·4	32·2	11·7	163·2	31·1	8·3	115·8	31·1	6·7	80·8	1896	1896	Hassan.
1932	1925	1897	1905	1906	1931	1905	1897	1958	1927	1904	1925	1926	1907	1906			
33·9	16·7	95·3	33·3	15·0	129·3	32·8	13·9	111·5	32·2	11·1	105·2	31·7	10·6	78·5	1896	1896	Mysore.
1899	1928	1910	1936	1906	1940	1905	1917	1902	1918	1901	1915	1923	1945	1952			
33·3	14·4	162·1	33·3	15·0	124·7	32·2	13·3	116·8	31·1	10·6	114·5	31·1	8·9	67·3	1881	1881	Bangalore. (Central Observatory).
1899	1882	1890	1951	1883	1912	1934	1889	1935	1923	1889	1916	1926	1883	1941			
31·1	15·0	54·4	32·8	15·6	95·8	32·1	14·4	169·2	31·7	11·7	83·6	30·1	11·1	20·8	1948	1948	Bangalore. (Aerodrome).
1958	1948	1954	1951	1954	1958	1958	1950	1953	1953	1950	1950	1957	1954	1952			
Kerala (Including Laccadives)																	
32·2	20·6	204·5	33·9	21·1	179·1	34·4	20·0	189·2	34·4	16·1	192·3	34·8	16·1	115·1	1891	1881	Kozhikode.
1953	1950	1924	1952	1954	1955	1897	1917	1940	1929	1901	1925	1957	1895	1942			
31·7	20·6	109·5	35·6	20·6	86·9	35·0	20·6	76·2	35·6	17·2	65·8	34·5	16·7	89·7	1943	1943	Palghat.
1947	1946	1956	1955	1954	1944	1945	1954	1953	1952	1954	1948	1958	1945	1946			
32·2	21·1	155·7	31·1	21·1	111·8	32·2	21·1	236·2	32·8	19·4	121·4	32·9	19·4	154·7	1926	1881	Fort Cochin.
1929	1946	1947	1955	1950	1936	1930	1943	1884	1953	1944	1920	1957	1945	1946			
30·5	21·6	95·5	30·7	21·7	59·2	34·1	22·2	138·4	32·8	22·2	69·9	34·2	18·9	11·4	1956	1956	Cochin. (Naval Air Station).
1958	1958	1958	1957	1956	1958	1957	1956	1957	1957	1958	1957	1957	1956	1956			
31·7	21·1	139·2	32·2	21·7	134·1	32·8	21·1	163·1	34·4	20·6	132·3	35·0	17·8	82·5	1944	1944	Alleppey.
1949	1948	1947	1951	1950	1955	1946	1950	1945	1949	1954	1945	1951	1944	1947			
32·1	21·3	60·0	34·3	19·4	43·8	34·4	20·4	98·5	34·0	17·4	63·5	34·4	16·7	49·1	1957	1957	Punalur.
1958	1957	1958	1957	1957	1958	1957	1957	1957	1957	1957	1958	1958	1957	1957			
32·8	20·6	102·4	33·3	21·1	125·5	33·3	21·1	215·9	33·9	18·9	162·8	34·4	18·9	148·8	1931	1889	Trivandrum.
1953	1946	1932	1946	1950	1907	1940	1950	1908	1954	1944	1948	1955	1945	1919			
31·1	21·1	55·6	32·8	21·7	116·8	31·7	21·7	82·8	32·2	20·6	114·8	32·8	18·3	41·7	1954	1954	Trivandrum. (Aerodrome).
1956	1955	1958	1955	1956	1955	1957	1955	1955	1954	1954	1955	1957	1955	1955			
Arabian Sea Islands																	
31·7	21·1	200·7	32·2	21·7	107·7	33·3	19·4	128·3	32·2	17·2	132·1	32·2	18·3	187·5	1896	1896	Minicoy.
1934	1934	1930	1937	1954	1916	1931	1945	1910	1947	1942	1907	1957	1955	1898			
32·8	22·2	241·8	33·9	21·7	217·7	35·9	20·6	133·6	35·0	18·3	88·9	35·0	18·9	119·4	1896	1896	Amini Divi.
1905	1925	1909	1940	1950	1915	1958	1928	1928	1949	1910	1932	1910	1908	1925			
Hill Stations excluding Kashmir																	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Walong.
..	
30·6	17·1	102·1	27·8	15·9	95·3	27·2	12·1	83·8	24·5	8·3	68·8	19·5	6·1	5·1	1952	1952	Kohima.
1957	1957	1954	1956	1957	1953	1956	1957	1954	1957	1952	1955	1958	1954	1953			
29·4	12·8	137·4	29·4	15·6	136·1	29·3	8·9	144·8	28·3	8·3	73·4	26·7	5·6	57·9	1938	1938	Aijal.
1944	1946	1943	1949	1941	1938	1958	1947	1958	1943	1942	1942	1947	1947	1945			
29·2	14·4	118·1	27·8	11·7	226·1	27·2	5·6	296·2	25·6	1·1	96·0	22·8	1·7	41·1	1906	1906	Shillong.
1957	1932	1916	1946	1940	1927	1938	1921	1946	1943	1937	1950	1918	1929	1926			

R=Heaviest Rainfall in 24 hours ending at 0830 hrs. I. S. T.

..=Information not available.

TABLE III (A) EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AND

Sub-division and station	January			February			March			April			May			June			July			
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	
Hill Stations excluding Kashmir (contd.)																						
Cherrapunji . .	26.7	1.1	85.3	28.9	0.6	91.9	30.6	0.6	306.1	28.3	3.9	462.3	28.9	3.3	812.0	27.8	11.7	973.8	28.3	11.7	838.2	
	1913	1911	1929	1913	1950	1907	1913	1912	1910	1938	1911	1922	1958	1917	1916	1942	1910	1956	1937	1910	1910	
Mawsynram . .	..	..	41.1	..	..	45.7	..	..	85.1	..	..	316.5	..	..	450.9	..	..	613.4	..	..	619.8
	..	..	1958	..	..	1955	..	..	1953	..	..	1956	..	..	1956	..	..	1956	..	..	1956
Darjiling (Raj Bhawan).	18.9	-3.9	134.6	17.2	-5.0	42.9	23.3	-0.6	72.9	26.7	1.1	135.1	23.9	5.6	232.9	26.7	8.3	454.1	25.0	3.9	194.8	
Kalimpong* . .	26.1	0.6	40.6	26.1	3.3	45.0	27.8	4.6	42.4	30.6	8.3	69.6	29.5	10.0	122.4	30.6	14.4	302.0	28.9	15.2	195.8	
	1956	1945	1957	1956	1945	1940	1935	1908	1951	1910	1933	1916	1916	1939	1887	1902	1938	1950	1919	1944	1924	
Katmandu . .	25.0	-2.8	36.6	28.3	-1.1	27.4	33.3	1.1	47.2	37.2	4.4	43.4	37.5	9.4	55.6	37.8	13.2	108.5	32.8	16.1	167.4	
	1946	1955	1942	1922	1931	1944	1938	1948	1943	1954	1945	1949	1958	1955	1938	1931	1956	1950	1937	1957	1939	
Mukteswar(Kumaon)	19.4	-6.1	81.3	23.9	-7.8	76.5	25.0	-3.3	67.8	27.8	-1.7	49.0	29.4	3.3	71.4	30.0	6.7	220.7	30.6	9.4	159.5	
	1910	1953	1945	1953	1905	1905	1908	1907	1914	1956	1937	1919	1956	1920	1916	1901	1903	1921	1901	1930	1907	
Nainital . .	18.4	-5.6	77.5	21.7	-2.2	69.1	21.7	1.1	60.2	26.1	3.9	35.6	27.8	10.0	208.3	28.3	11.1	141.2	26.1	14.4	223.5	
	1958	1953	1953	1953	1957	1954	1958	1957	1954	1954	1957	1953	1956	1958	1956	1953	1957	1956	1954	1955	1957	
Tapoban† . .	18.9	-4.4	30.5	26.7	-2.2	5.3	26.7	0.6	38.1	30.6	0.6	38.1	31.7	6.1	31.7	32.8	7.2	35.6	31.7	7.2	48.3	
	1957	1955	1955	1955	1956	1953	1955	1957	1955	1958	1957	1955	1958	1957	1957	1958	1957	1957	1957	1957	1957	
Joshimath** . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Badrinath	20.0	6.9	8.2	20.0	10.0	121.4
	1958	1958	1958	1958	1958	1958
Lokpal . .	14.0	-16.1	77.5	0	-13.9	35.6	-3.3	-10.6	17.8	0	-11.1	34.3	10.0	-7.8	38.6	11.1	-3.3	31.7	11.1	1.7	77.4	
	1957	1955	1955	1956	1957	1955	1957	1957	1957	1957	1957	1956	1955	1955	1957	1956	1955	1956	1955	1956	1958	
Jamuna Chetty . .	..	..	48.3	..	..	57.1	..	..	58.4	..	..	38.1	..	..	50.8	..	..	76.7	..	..	144.8
	..	..	1956	..	..	1954	..	..	1952	..	..	1957	..	..	1957	..	..	1956	..	..	1957
Mussooree . .	21.1	-5.0	90.9	23.3	-6.7	82.0	26.1	-2.2	62.0	28.9	-0.6	43.2	34.4	5.6	50.0	31.7	5.3	139.9	29.4	12.2	196.9	
	1949	1935	1943	1953	1950	1949	1945	1945	1944	1956	1944	1942	1949	1947	1943	1935	1957	1936	1949	1939	1942	
Kharsali	77.5	59.7	77.7	67.3	77.0	41.7	102.6
	..	..	1954	..	..	1954	..	..	1956	..	..	1957	..	..	1957	..	..	1952	..	..	1957
Rana	50.8	55.1	90.4	62.2	74.9	75.7	95.3
	..	..	1956	..	..	1954	..	..	1956	..	..	1957	..	..	1957	..	..	1956	..	..	1957
Simla . .	18.9	-10.6	78.7	20.6	-8.3	63.5	23.9	-5.6	63.0	28.3	-1.1	39.6	30.0	4.4	97.8	30.6	7.8	122.2	27.8	10.0	167.1	
	1949	1945	1888	1953	1950	1908	1945	1933	1901	1941	1905	1890	1944	1924	1883	1932	1922	1906	1954	1932	1922	
Dharampore . .	..	..	81.3	..	..	81.3	..	..	104.1	..	..	78.7	..	..	56.9	..	..	91.4	..	..	147.3
	..	..	1957	..	..	1954	..	..	1955	..	..	1957	..	..	1957	..	..	1953	..	..	1952
Kyelang . .	..	..	57.1	..	..	49.5	..	..	68.6	..	..	50.3	..	..	33.5	..	..	40.6	..	..	78.0
	..	..	1951	..	..	1956	..	..	1947	..	..	1951	..	..	1955	..	..	1948	..	..	1951
Gondla . .	..	..	55.4	..	..	49.5	..	..	90.2	..	..	72.4	..	..	105.4	..	..	35.6	..	..	104.7
	..	..	1955	..	..	1955	..	..	1952	..	..	1958	..	..	1951	..	..	1955	..	..	1951
Kothi . .	..	..	82.3	..	..	57.7	..	..	89.7	..	..	74.2	..	..	110.5	..	..	69.1	..	..	107.9
	..	..	1956	..	..	1955	..	..	1955	..	..	1957	..	..	1957	..	..	1955	..	..	1951
Koksar . .	..	..	70.6	..	..	77.7	..	..	129.5	..	..	61.0	..	..	141.7	..	..	107.7	..	..	97.5
	..	..	1954	..	..	1957	..	..	1953	..	..	1954	..	..	1957	..	..	1955	..	..	1955
Dalhousie . .	21.7	-5.0	134.6	29.4	-2.8	134.6	29.4	-0.6	96.5	29.6	1.1	112.3	33.3	6.7	53.9	34.4	8.9	97.3	32.8	11.7	232.6	
	1952	1953	1950	1953	1957	1949	1953	1958	1948	1958	1955	1951	1952	1955	1953	1952	1956	1953	1955	1957	1957	

X=Highest Maximum Temperature.

N=Lowest Minimum Temperature.

*Observations reported from Hydromet Observatory from July 1958.

†Observatory closed from July 1958.

**Observatory started from July 1958.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UPTO 1958 (1878-1879 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station.
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temper- ature	Rainfall	
29.2	12.8	682.7	28.9	12.8	632.2	29.4	10.0	590.5	26.7	6.7	332.2	23.3	3.9	189.7	1906	1906	Hill Stations (contd.) Cherrapunji.
1957	1943	1932	1906	1925	1951	1938	1947	1919	1915	1946	1917	1951	1929	1926			Mawsynram.
..	..	685.8	..	..	532.1	..	..	309.9	..	..	156.2	..	..	12.7	..	1951	
..	..	1956	..	..	1951	..	..	1952	..	..	1952	..	..	1954			
26.7	8.3	237.5	26.7	10.0	192.8	23.3	4.4	334.5	22.2	-0.6	219.7	20.0	-1.7	31.2	1891	1881	Darjiling (Raj Bhawan).
1957	1946	1915	1900	1910	1899	1914	1913	1929	1943	1951	1912	1947	1905	1885			
30.9	10.0	141.7	29.1	13.9	206.0	28.3	8.9	206.3	26.1	3.9	50.8	26.7	-0.6	29.0	1921	1926	Kalimpong.
1957	1955	1950	1957	1924	1929	1944	1944	1929	1956	1944	1948	1953	1922	1934			
33.3	16.1	101.6	33.3	13.3	71.4	33.3	5.6	47.5	29.4	0.6	28.5	28.3	-2.8	15.2	1914	1935	Katmandu.*
1939	1954	1945	1938	1940	1936	1938	1934	1937	1931	1938	1948	1917	1954	1937			
26.1	11.1	203.7	25.6	6.7	254.5	25.0	1.7	182.4	21.7	-1.1	15.2	21.7	-5.0	90.7	1901	1901	Mukteswar (Kumaon).
1928	1919	1948	1916	1910	1914	1909	1913	1910	1953	1910	1927	1944	1954	1957			
25.1	12.8	89.7	23.3	10.6	313.7	22.3	5.6	300.7	21.1	2.8	15.2	21.2	-1.1	153.7	1953	1953	Nainital.
1957	1956	1951	1958	1953	1957	1957	1957	1956	1953	1956	1957	1957	1955	1957			
27.8	10.0	45.7	17.3	11.1	35.6	26.7	4.4	81.3	21.7	3.9	2.0	21.1	0	7.0	1953	1953	Tapoban.†
1956	1957	1954	1956	1957	1957	1956	1956	1955	1955	1956	1957	1956	1955	1957			
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Joshimath.**
17.8	7.8	13.0	13.3	6.1	22.7	15.0	3.3	22.2	13.9	..	0	..	..	..	1958	1953	Badrinath.
1958	1958	1958	1958	1958	1958	1958	1958	1958	1953	..	..	..	..	..	..	..
10.6	2.2	43.2	10.1	-2.2	55.4	8.9	-7.8	65.0	8.9	-12.2	38.9	2.2	-16.7	63.5	1951	1951	Lokpal.
1957	1956	1957	1958	1951	1951	1952	1954	1956	1952	1957	1954	1953	1952	1956			
..	..	121.9	..	..	63.5	..	..	83.8	..	..	39.0	..	..	57.1	..	1951	Jamuna Chetty.
..	..	1955	..	..	1956	..	..	1955	..	..	1951	..	..	1957			
25.6	12.2	302.3	27.2	6.1	199.6	25.6	3.3	193.1	25.0	1.1	30.5	31.7	-3.9	111.0	1926	1926	Mussooree.
1957	1937	1931	1946	1940	1947	1951	1945	1956	1952	1937	1928	1953	1954	1957			
..	..	77.5	..	..	84.6	..	..	129.8	..	..	3.8	..	..	34.8	..	1951	Kharsali.
..	..	1952	..	..	1955	..	..	1956	..	..	1951	..	..	1953			
..	..	100.3	..	..	65.3	..	..	85.1	..	..	30.2	..	..	63.8	..	1951	Rana.
..	..	1953	..	..	1955	..	..	1956	..	..	1956	..	..	1957			
27.8	10.6	227.1	25.0	5.0	135.9	23.9	2.8	113.0	21.1	-1.1	68.8	20.0	-6.1	76.5	1896	1881	Simla.
1951	1957	1901	1946	1940	1892	1938	1904	1884	1952	1911	1894	1932	1937	1923			
..	..	165.1	..	..	213.4	..	..	199.4	..	..	130.8	..	..	31.0	..	1947	Dharampore.
..	..	1954	..	..	1955	..	..	1956	..	..	1951	..	..	1958			
..	..	45.2	..	..	128.3	..	..	63.5	..	..	43.7	..	..	27.7	..	1947	Kyclang.
..	..	1953	..	..	1950	..	..	1956	..	..	1951	..	..	1958			
..	..	63.5	..	..	123.2	..	..	158.7	..	..	82.5	..	..	48.5	..	1951	Gondia.
..	..	1957	..	..	1954	..	..	1955	..	..	1951	..	..	1953			
..	..	85.1	..	..	102.4	..	..	99.3	..	..	50.8	..	..	63.7	..	1951	Kothi.
..	..	1952	..	..	1954	..	..	1955	..	..	1951	..	..	1953			
..	..	69.1	..	..	71.6	..	..	167.6	..	..	46.2	..	..	45.7	..	1952	Koksar.
..	..	1952	..	..	1958	..	..	1955	..	..	1957	..	..	1957			
26.2	11.7	198.1	26.1	10.6	188.2	26.1	3.9	287.0	25.7	3.1	97.8	23.9	-3.3	132.2	1947	1947	Dalhousie.
1957	1957	1951	1956	1953	1947	1952	1957	1955	1958	1957	1957	1952	1954	1958			

R=Heaviest Rainfall in 24 hours ending at 0830 hrs. I.S.T.

..=Information not available.

TABLE III (A) EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AND

Sub-division and station	January			February			March			April			May			June			July		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Hill Stations excluding Kashmir (contd.)																					
Dharamshala	21.1	0.6	66.5	25.0	0	65.0	27.8	4.4	72.4	33.8	8.8	52.8	36.7	11.1	74.9	38.3	14.5	85.1	35.3	16.7	219.9
	1952	1954	1953	1953	1951	1954	1953	1955	1956	1958	1957	1957	1952	1951	1956	1958	1957	1956	1957	1955	1958
Abu	26.1	-1.1	37.9	28.9	0	40.6	33.3	3.9	27.2	36.9	10.0	22.6	38.3	11.1	92.7	38.3	13.9	343.1	32.8	16.1	460.5
	1932	1929	1888	1943	1950	1906	1892	1945	1927	1958	1926	1900	1881	1892	1917	1897	1940	1945	1939	1910	1943
Pachmarhi	27.8	-1.1	94.2	31.7	-0.6	52.1	36.1	3.3	55.1	40.0	8.9	38.6	40.6	15.0	35.3	40.6	15.6	201.9	35.0	16.1	338.3
	1946	1935	1957	1953	1929	1928	1892	1906	1936	1942	1905	1935	1954	1933	1933	1889	1931	1916	1912	1941	1882
Mahabaleshwar	28.9	6.1	22.1	31.1	3.9	29.0	33.9	9.4	33.0	36.1	11.1	95.0	34.4	13.9	57.9	32.2	12.8	310.4	23.9	13.8	381.2
	1938	1945	1943	1953	1942	1938	1953	1940	1955	1994	1955	1937	1948	1955	1956	1953	1943	1936	1951	1957	1958
Nandi Hills	25.6	8.9	32.8	28.3	10.0	6.3	30.6	13.3	35.6	32.2	13.3	54.6	32.8	13.3	167.6	30.0	12.2	99.1	25.6	12.8	176.8
	1954	1946	1954	1954	1947	1952	1953	1955	1951	1956	1949	1955	1950	1955	1948	1953	1948	1956	1952	1952	1951
Mercara	31.7	9.4	30.0	31.7	8.9	31.7	33.3	10.6	55.4	33.9	10.6	87.6	35.0	9.4	174.0	30.0	10.0	206.3	28.9	11.2	364.5
	1954	1946	1906	1911	1936	1950	1921	1955	1928	1896	1955	1915	1902	1955	1909	1939	1955	1941	1955	1958	1924
Kodaikanal	24.4	2.8	194.8	24.4	4.4	158.7	26.7	4.4	106.7	26.1	8.2	123.7	27.8	7.8	131.1	23.9	5.0	60.5	22.2	8.9	79.3
	1916	1950	1943	1914	1955	1925	1926	1955	1947	1925	1958	1955	1923	1955	1955	1906	1912	1947	1918	1910	1924
Ootacamund	23.9	-1.7	114.8	26.7	0	51.6	25.6	5.0	96.2	27.2	5.0	84.1	26.7	4.4	184.4	25.0	5.0	133.1	21.1	6.7	102.4
	1952	1921	1909	1945	1953	1917	1949	1958	1958	1942	1944	1947	1941	1917	1955	1944	1958	1941	1949	1908	1902
Coonoor	25.6	1.7	196.6	26.7	2.8	207.5	26.7	5.0	157.5	27.8	8.9	137.7	29.4	11.1	193.0	27.8	9.4	97.3	25.0	11.1	41.9
	1942	1946	1943	1945	1939	1936	1943	1949	1951	1956	1944	1951	1931	1951	1957	1953	1936	1939	1952	1955	1942
Sikkim																					
Thangu	..	..	81.3	..	..	38.1	..	..	27.2	..	..	24.4	..	..	101.6	..	..	20.3	..	..	33.0
	..	..	1957	..	..	1956	..	..	1957	..	..	1955	..	..	1954	..	..	1952	..	..	1952
Chungthang	..	..	34.3	..	..	76.2	..	..	86.4	..	..	71.6	..	..	115.3	..	..	75.7	..	..	75.7
	..	..	1951	..	..	1956	..	..	1956	..	..	1958	..	..	1958	..	..	1955	..	..	1955
Lachen	18.9	-5.6	66.0	18.9	-5.6	30.5	18.9	-6.7	43.2	18.3	-5.6	30.5	19.4	0.6	33.0	19.4	5.6	45.7	20.6	6.1	52.6
	1958	1958	1957	1958	1958	1957	1958	1958	1956	1958	1958	1955	1958	1958	1956	1958	1952	1958	1958	1952	1952
Tibet																					
Yatung (Chumbi)	14.5	-18.3	68.0	19.4	-18.3	12.7	19.4	-13.3	55.1	21.1	-10.6	27.9	22.2	-8.9	25.4	23.3	-4.4	25.4	22.2	-2.2	38.3
	1958	1956	1958	1952	1953	1958	1953	1954	1957	1954	1954	1953	1954	1954	1953	1954	1954	1954	1953	1954	1954
Lhasa	20.0	-16.2	0	20.0	-13.3	25.4	22.2	-11.1	9.1	24.4	-4.4	7.6	28.3	-2.8	19.3	30.6	2.8	33.5	29.4	5.6	55.4
	1949	1958	..	1952	1948	1946	1953	1957	1948	1947	1957	1947	1955	1949	1948	1956	1947	1952	1952	1956	1955
Ceylon																					
Colombo	34.4	15.0	116.1	35.6	16.1	132.6	35.6	17.8	97.5	33.9	18.9	210.1	32.8	20.6	289.6	32.2	21.1	144.8	32.8	21.7	184.1
	1932	1950	1954	1950	1956	1915	1945	1934	1947	1950	1952	1949	1957	1955	1936	1953	1949	1953	1942	1950	1916
Trincomalee	30.6	18.9	208.5	32.2	18.3	107.9	36.7	20.0	240.3	38.9	21.1	141.0	38.3	21.1	271.5	38.3	20.6	79.5	36.7	21.7	99.8
	1945	1953	1921	1945	1947	1937	1953	1947	1944	1956	1945	1955	1953	1931	1930	1953	1938	1911	1947	1946	1926
Batticaloa	30.0	17.2	156.2	32.2	17.2	129.8	33.9	20.0	109.5	35.6	21.7	76.2	37.2	22.2	64.0	37.2	22.8	25.4	36.7	21.7	67.3
	1954	1945	1951	1948	1953	1957	1951	1945	1950	1949	1945	1951	1956	1952	1945	1956	1956	1956	1953	1955	1955
Hambantota	32.8	18.3	121.9	33.3	18.3	101.9	34.4	18.9	94.0	34.4	21.1	110.5	35.6	21.7	259.8	37.2	21.1	68.6	35.6	20.6	80.5
	1942	1945	1913	1941	1939	1938	1952	1946	1941	1936	1932	1939	1946	1943	1940	1946	1944	1951	1936	1954	1953
Mannar	31.1	18.9	115.1	32.8	18.9	83.6	35.0	20.0	65.0	36.1	20.6	50.0	36.1	22.2	76.7	35.0	23.9	36.3	33.9	22.2	31.2
	1958	1956	1949	1954	1957	1951	1948	1951	1945	1956	1950	1954	1957	1950	1949	1946	1956	1956	1947	1952	1947

X=Highest Maximum Temperature.

N=Lowest Minimum Temperature.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UPTO 1958 (1878-1879 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																	Hill Stations excluding Kashmir (contd.)
29.5	16.2	316.9	29.4	14.4	255.0	28.3	10.4	196.9	24.7	7.2	38.1	22.2	1.7	60.5	1951	1951	Dharamshala.
1957	1957	1958	1951	1953	1955	1953	1957	1955	1958	1951	1957	1953	1954	1958			
31.1	15.0	484.9	31.1	15.0	469.1	31.7	10.6	148.1	28.9	6.1	43.7	27.8	-0.6	25.4	1881	1881	Abu.
1893	1913	1941	1929	1909	1950	1941	1947	1917	1929	1938	1896	1941	1929	1898			
30.0	15.0	458.7	35.6	12.8	350.3	31.7	6.7	164.1	28.3	2.2	99.1	27.8	-1.1	63.0	1881	1881	Pachmarhi.
1899	1939	1913	1931	1940	1932	1920	1933	1955	1957	1912	1912	1941	1926	1885			
26.7	13.9	339.9	27.8	12.2	327.1	30.6	11.1	191.5	28.9	10.0	148.6	28.3	8.3	39.6	1931	1929	Mahabaleshwar.
1950	1957	1956	1951	1935	1930	1957	1931	1938	1950	1955	1948	1953	1940	1933			
25.6	13.3	119.4	26.1	12.2	121.9	25.6	12.2	100.0	24.4	8.9	80.0	25.0	8.3	68.1	1945	1945	Nandi Hills.
1947	1947	1946	1951	1949	1946	1958	1948	1958	1953	1945	1946	1945	1934	1946			
26.7	12.2	194.6	27.2	12.2	103.4	28.3	10.6	151.6	27.8	10.6	86.4	28.9	9.4	85.9	1891	1881	Mercara.
1951	1920	1884	1951	1935	1938	1899	1948	1887	1918	1947	1925	1903	1937	1902			
21.1	8.3	118.9	21.7	8.9	104.1	21.1	6.1	147.1	21.7	3.9	197.1	22.8	2.8	133.1	1901	1901	Kodaikanal.
1905	1913	1935	1928	1907	1914	1914	1935	1930	1927	1901	1948	1910	1922	1903			
21.7	6.7	60.5	22.8	4.4	65.3	21.7	0	102.4	23.3	-1.1	209.8	23.9	-1.1	152.9	1901	1901	Ootacamund.
1948	1957	1909	1951	1958	1951	1957	1943	1916	1952	1949	1939	1948	1947	1941			
24.4	8.9	70.6	24.4	8.9	73.1	25.6	6.1	139.9	24.4	3.3	163.1	25.6	2.2	228.6	1931	1931	Coonoor.
1944	1953	1933	1934	1935	1955	1941	1933	1938	1938	1942	1948	1941	1956	1952			
																	Sikkim
..	..	18.5	..	..	33.5	..	..	31.7	..	..	20.3	..	..	15.2	..	1951	Thangu.
..	..	1954	..	..	1953	..	..	1953	..	..	1951	..	..	1957			
..	..	99.1	..	..	57.1	..	..	107.9	..	..	31.7	..	..	16.0	..	1951	Chungthang.
..	..	1954	..	..	1951	..	..	1953	..	..	1951	..	..	1957			
21.1	6.1	57.9	21.1	-0.6	39.4	19.4	1.7	38.6	..	..	22.1	13.3	-5.0	30.5	1958	1951	Lachen.
1958	1958	1952	1958	1958	1951	1958	1958	1953	..	..	1951	1958	1958	1954			
																	Tibet
22.2	-1.7	58.7	22.8	-2.8	40.6	20.6	-4.4	53.3	18.9	-10.0	30.5	13.9	-13.9	12.7	1952	1952	Yatung (Chumbi).
1953	1954	1954	1954	1955	1952	1955	1955	1956	1952	1952	1956	1952	1952	1957			
29.4	5.6	53.3	28.9	0.6	30.5	26.1	-6.7	12.7	22.8	-10.6	2.0	17.2	-14.4	0	1946	1946	Lhasa.
1951	1956	1955	1952	1951	1957	1952	1947	1946	1957	1953	1951	1952	1949	..			
																	Ceylon
33.9	21.7	126.0	31.7	21.1	153.4	31.7	20.6	256.3	32.2	18.9	210.3	32.8	17.2	114.3	1928	1911	Colombo.
1944	1954	1933	1952	1950	1937	1957	1938	1930	1956	1947	1934	1958	1939	1946			
36.7	21.1	107.4	36.7	21.1	128.5	36.7	21.1	154.2	34.4	18.3	200.4	32.2	20.0	322.8	1928	1911	Trincomalee.
1950	1955	1930	1957	1946	1919	1948	1951	1952	1948	1944	1923	1941	1937	1949			
36.7	21.7	68.1	37.8	22.2	63.7	35.0	21.7	82.0	32.8	20.0	116.3	32.2	20.0	192.0	1945	1945	Batticaloa.
1957	1955	1950	1954	1956	1956	1946	1953	1945	1955	1953	1946	1946	1956	1951			
35.0	20.6	74.9	35.0	21.7	84.1	34.4	21.1	91.4	35.6	18.9	134.4	32.2	18.3	159.5	1930	1911	Hambantota.
1955	1933	1917	1949	1949	1927	1955	1933	1924	1938	1941	1944	1956	1937	1923			
33.9	22.8	49.8	33.9	22.2	35.1	33.3	21.7	149.6	32.2	21.7	125.7	30.6	20.6	205.5	1945	1945	Mannar.
1953	1945	1948	1951	1953	1951	1957	1954	1954	1956	1949	1954	1952	1957	1957			

R=Heaviest Rainfall in 24 hours ending at 0830 hrs. I.S.T.

..=Information not available.

TABLE III (A) EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES ($^{\circ}\text{C}$) AN-

Sub-division and station	January			February			March			April			May			June			July			
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	
Hydrometeorological Observatories																						
Damodar Catchment																						
Bokaro . . .	31.8	2.8	49.5	35.0	2.2	20.6	41.1	8.2	30.5	43.3	14.3	46.2	45.0	17.2	45.7	45.6	21.1	70.9	37.4	21.1	216.1	
	1958	1956	1953	1952	1950	1953	1955	1957	1957	1956	1957	1951	1956	1951	1958	1958	1953	1950	1958	1958	1953	
Hazaribagh (s) . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tilaiya . . .	30.4	6.3	55.4	31.8	7.9	19.1	33.0	10.1	29.7	41.0	17.5	17.8	43.4	22.7	1.5	43.7	24.1	69.6	38.2	20.0	87.4	
	1958	1958	1957	1958	1957	1958	1958	1957	1957	1957	1957	1958	1957	1957	1958	1958	1957	1957	1958	1958	1957	
Ramgarh . . .	33.0	2.2	25.7	35.6	4.8	40.4	41.1	7.8	20.1	43.9	13.9	22.6	46.1	19.4	23.6	46.1	21.7	76.2	42.2	22.2	88.1	
	1958	1955	1953	1952	1957	1953	1955	1957	1958	1956	1953	1952	1956	1951	1956	1955	1952	1953	1951	1951	1957	
Panchet Hills . . .	32.2	6.7	41.7	34.9	8.9	14.2	41.1	12.2	24.4	45.0	16.4	11.9	46.5	20.6	43.2	46.1	22.2	90.9	37.7	21.7	129.0	
	1958	1955	1954	1958	1956	1956	1955	1954	1958	1956	1957	1956	1957	1956	1958	1958	1953	1957	1958	1957	1953	
Durgapur . . .	31.7	10.0	14.7	35.0	10.8	16.5	40.0	15.1	6.9	43.6	21.3	3.1	45.8	23.4	7.9	46.4	21.4	132.1	37.2	23.5	53.9	
	1958	1958	1957	1958	1958	1957	1958	1957	1958	1957	1958	1958	1958	1958	1958	1958	1957	1957	1958	1957	1957	
Asansol (s) . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dhanwar . . .	..	..	49.5	..	..	5.6	..	..	11.2	..	..	9.7	..	..	38.1	..	..	88.9	..	..	126.0
	..	..	1957	..	..	1957	..	..	1957	..	..	1953	..	..	1952	..	..	1956	..	..	1955
Dumri . . .	..	..	10.7	..	..	10.2	..	..	13.2	..	..	13.5	..	..	70.6	..	..	69.9	..	..	95.5
	..	..	1956	..	..	1958	..	..	1955	..	..	1951	..	..	1954	..	..	1957	..	..	1957
Bishunigarh . . .	..	..	55.9	..	..	10.7	..	..	27.4	..	..	35.6	..	..	46.0	..	..	83.3	..	..	114.3
	..	..	1953	..	..	1958	..	..	1957	..	..	1952	..	..	1954	..	..	1951	..	..	1951
Palganj (Giridih) . . .	..	..	53.9	..	..	11.2	..	..	37.1	..	..	42.9	..	..	88.7	..	..	85.3	..	..	85.1
	..	..	1957	..	..	1957	..	..	1957	..	..	1952	..	..	1956	..	..	1957	..	..	1957
Chandwa . . .	..	..	52.1	..	..	27.9	..	..	26.9	..	..	23.6	..	..	26.7	..	..	71.1	..	..	91.9
	..	..	1955	..	..	1958	..	..	1951	..	..	1951	..	..	1956	..	..	1958	..	..	1957
Maithon . . .	..	..	23.4	..	..	15.7	..	..	11.4	..	..	8.6	..	..	31.2	..	..	87.9	..	..	49.3
	..	..	1957	..	..	1957	..	..	1957	..	..	1958	..	..	1958	..	..	1957	..	..	1957
Konar . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mahanadi Catchment																						
Baramul . . .	32.8	6.1	1.0	36.7	7.1	39.1	41.7	10.4	13.7	43.3	15.8	28.0	45.6	20.6	36.1	46.1	20.6	200.7	40.0	21.7	75.4	
	1958	1955	1957	1955	1958	1958	1955	1957	1956	1958	1957	1958	1956	1955	1956	1958	1957	1956	1957	1955	1958	
Hirakud . . .	32.2	10.0	21.6	36.1	10.0	36.1	42.2	14.9	57.1	45.0	18.7	10.4	46.7	22.2	24.1	46.7	22.8	106.7	38.2	22.2	178.8	
	1955	1956	1957	1956	1956	1956	1955	1957	1957	1958	1956	1957	1957	1956	1955	1955	1957	1958	1955	1957	1958	
Khijrawan . . .	32.2	6.4	3.8	34.3	5.3	14.7	38.9	11.8	40.9	42.3	20.9	34.3	43.2	21.1	31.7	47.6	23.1	50.0	44.9	22.6	58.7	
	1958	1958	1958	1957	1958	1957	1958	1957	1957	1958	1958	1957	1958	1958	1957	1957	1958	1957	1958	1957	1957	
Sonepur . . .	32.2	9.4	0.2	38.3	9.4	33.0	42.2	14.9	15.0	43.9	19.1	19.3	46.7	18.8	25.4	46.7	22.2	68.8	37.1	16.1	166.4	
	1955	1955	1957	1955	1956	1957	1955	1958	1958	1957	1956	1957	1958	1956	1955	1955	1958	1957	1958	1957	1958	
Ginabahar . . .	31.7	5.0	12.7	35.0	5.6	17.3	40.6	8.9	16.5	42.8	14.4	16.5	45.6	20.0	34.3	45.0	20.8	64.3	37.2	18.1	93.5	
	1958	1955	1957	1956	1956	1955	1957	1957	1957	1956	1957	1958	1956	1955	1958	1958	1957	1958	1958	1957	1956	
Bhimkund . . .	31.3	7.8	6.1	33.7	8.6	13.2	39.3	13.8	13.0	41.5	19.3	44.7	43.8	15.8	27.9	44.9	22.5	54.4	..	..	..
	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	

(s)—Departmental observatory at same station, hence extremes not compiled.

X=Highest Maximum Temperature.

N=Lowest Minimum Temperature.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UP TO 1958 (1878-1879 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station.
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temper- ature	Rainfall	
																	Hydrometeorological Observatories
																	Damodar Catchment
35.2	22.2	106.9	35.2	18.9	148.3	35.2	11.7	70.9	33.9	5.0	23.4	31.7	2.8	9.9	1950	1950	Bokaro.
1957	1953	1953	1958	1950	1958	1957	1954	1958	1950	1952	1953	1950	1955	1954			
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Hazaribagh (s).
..	
34.7	22.4	156.2	34.2	23.1	115.6	32.9	14.0	33.0	30.7	11.2	0	28.8	6.2	0	1957	1957	Tilaiya.
1957	1957	1957	1958	1957	1958	1957	1957	1958	1958	1957	..	1957	1957	..			
36.4	21.1	169.9	35.1	18.3	174.2	37.8	10.8	81.5	34.2	4.4	17.3	31.6	1.7	56.4	1950	1950	Ramgarh.
1958	1953	1953	1957	1950	1954	1956	1957	1952	1957	1952	1953	1957	1955	1950			
36.1	21.1	82.8	36.4	19.3	195.1	35.8	15.0	90.4	33.3	9.9	43.2	31.7	6.7	12.5	1950	1950	Panchet Hills.
1957	1958	1953	1958	1958	1956	1953	1954	1958	1957	1957	1955	1953	1955	1954			
36.7	23.3	49.0	35.6	22.0	64.0	35.3	20.8	82.3	33.3	13.3	0.5	30.0	9.7	0	1957	1957	Durgapur.
1957	1958	1958	1958	1958	1957	1957	1958	1958	1957	1957	1958	1957	1958	..			
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Asansol (s).
..	
..	..	59.7	..	..	161.3	..	..	44.5	..	..	1.0	..	..	14.2	..	1951	Dhanwar.
..	..	1957	..	..	1954	..	..	1952	..	..	1956	..	..	1956			
..	..	171.5	..	..	144.3	..	..	46.2	..	..	9.1	..	..	8.1	..	1950	Dumri.
..	..	1956	..	..	1958	..	..	1958	..	..	1953	..	..	1954			
..	..	142.2	..	..	96.0	..	..	61.0	..	..	15.7	..	..	9.7	..	1950	Bishungarh.
..	..	1953	..	..	1958	..	..	1958	..	..	1956	..	..	1956			
..	..	76.7	..	..	104.7	..	..	52.1	..	..	29.7	..	..	23.6	..	1950	Palganj (Giridih).
..	..	1955	..	..	1954	..	..	1956	..	..	1956	..	..	1954			
..	..	85.1	..	..	76.2	..	..	57.4	..	..	15.7	..	..	6.6	..	1951	Glandwa.
..	..	1953	..	..	1953	..	..	1958	..	..	1956	..	..	1954			
..	..	50.0	..	..	131.3	..	..	41.7	..	..	0	..	..	0	..	1957	Maithon.
..	..	1958	..	..	1958	..	..	1958	..	..	..	..	..	..	..	..	Konar.
																	Mahanadi Catchment
41.1	18.9	56.9	34.4	21.5	196.6	35.6	16.9	101.3	33.3	10.6	39.4	32.2	5.0	0	1955	1955	Baramul.
1957	1957	1958	1957	1957	1956	1957	1958	1956	1957	1955	1955	1957	1955	..			
35.0	22.8	133.9	34.4	22.8	281.9	36.4	17.4	91.4	32.3	12.8	5.8	31.4	7.2	0	1955	1955	Hirakud.
1957	1956	1955	1957	1955	1955	1957	1957	1956	1957	1955	1956	1957	1955	..			
32.5	22.7	91.4	32.4	21.6	70.3	34.4	15.4	32.3	30.8	10.0	16.5	30.8	5.9	0	1957	1957	Khijrawan.
1958	1958	1958	1957	1958	1958	1957	1958	1957	1957	1957	1958	1957	1958	..			
35.6	20.5	160.5	35.6	14.7	287.8	35.8	15.1	64.5	33.3	11.3	2.0	32.2	7.8	0	1955	1955	Sonepur.
1957	1957	1956	1956	1957	1955	1957	1958	1958	1956	1958	1958	1957	1955	..			
35.0	21.7	198.1	34.5	20.8	73.1	35.6	11.4	178.3	32.6	6.1	9.1	31.1	3.9	5.1	1955	1955	Ginabahar.
1957	1958	1956	1957	1957	1955	1957	1957	1958	1957	1956	1956	1956	1955	1956			
33.0	22.9	21.8	34.4	22.8	34.0	32.6	17.4	40.5	30.9	11.8	11.3	28.1	8.0	0	1958	1958	Bhimkund.
1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	..	..	..

R=Heaviest Rainfall in 24 hours ending at 0830 hrs. I.S.T. ..=Information not available.

TABLE III (A) EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AND

Sub-division and station	January			February			March			April			May			June			July			
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	
Hydrometeorological Observatories (contd.)																						
Narbada Catchment	Punasa . .	32.8	5.6	19.3	40.0	6.1	18.8	42.2	10.7	9.9	47.5	15.0	9.7	47.2	19.4	56.6	46.1	21.7	103.9	38.1	21.2	78.5
	1954	1954	1955	1953	1951	1952	1955	1957	1958	1958	1954	1957	1954	1954	1956	1953	1956	1956	1958	1957	1952	
Sabarmati Catchment	Bagra Tawa . .	32.3	2.8	31.2	37.8	4.2	15.5	41.7	9.1	25.4	45.3	13.9	10.4	47.2	20.6	29.0	46.1	20.6	88.1	37.8	17.2	139.7
	1958	1954	1951	1953	1957	1955	1953	1957	1957	1958	1955	1957	1954	1955	1956	1953	1955	1951	1958	1956	1953	
Dhodrol Catchment	Thikri . .	35.0	5.6	20.3	39.4	2.2	8.4	42.8	10.6	0	47.4	16.1	2.5	47.8	22.2	26.9	45.6	20.0	93.5	39.4	21.1	107.9
	1950	1953	1953	1953	1950	1949	1953	1957	..	1948	1955	1958	1951	1952	1949	1953	1952	1953	1950	1955	1950	
Ganga Catchment	Sainwara (Surajgarh)	29.4	-1.3	5.3	33.9	0.6	7.6	37.8	5.3	10.2	43.4	10.6	7.6	45.0	17.5	17.8	41.1	18.6	61.0	37.2	21.1	115.8
	1958	1957	1958	1956	1956	1955	1956	1957	1956	1958	1956	1956	1956	1957	1956	1958	1957	1957	1958	1956	1956	
Gandak Catchment	Bikrani . .	..	..	25.4	..	..	0	..	..	0	..	..	0	..	..	0	..	..	53.3	..	..	81.3
	..	..	1957	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1958	..	..	1958	
Dharoi Catchment	Tarpal . .	..	..	8.6	..	..	0	..	..	0	..	..	43.2	..	..	0	..	..	66.0	..	..	145.3
	..	..	1958	..	..	..	..	..	..	..	..	..	1957	..	..	..	..	..	1955	..	..	1956
Gogra Catchment (Trans-Himalayan Region)	Kotra Cantonment	..	..	27.9	..	..	0	..	..	1.8	..	..	2.5	..	..	10.2	..	..	77.5	..	..	81.3
	..	..	1957	..	..	..	..	..	..	1957	..	..	1958	..	..	1956	..	..	1957	..	..	1957
Gogra Catchment (Trans-Himalayan Region)	Dhawalgarh	32.2	4.1	6.9	37.2	5.7	0	41.3	9.6	0	46.9	14.4	2.5	45.0	22.8	0	41.4	23.4	104.7	37.5	22.8	208.0
	1958	1957	1958	1956	1957	..	1958	1957	..	1958	1956	1958	1956	1956	1956	..	1957	1957	1956	1958	1958	1958
Gogra Catchment (Trans-Himalayan Region)	Mukhim . .	18.8	-2.7	13.5	21.7	-0.6	10.2	24.4	1.6	33.2	28.9	4.6	39.4	31.7	8.8	39.6	32.2	10.5	42.2	28.1	15.6	105.2
	1957	1957	1957	1956	1957	1956	1958	1958	1958	1958	1958	1958	1957	1956	1957	1957	1958	1957	1957	1958	1957	
Gogra Catchment (Trans-Himalayan Region)	Tehri . .	23.9	0.4	50.3	30.0	3.2	23.4	34.2	7.3	29.7	39.3	9.8	24.6	40.6	15.4	39.9	42.3	12.1	49.5	37.4	13.2	73.7
	1956	1957	1957	1956	1957	1956	1958	1958	1957	1956	1958	1957	1956	1956	1957	1957	1958	1957	1957	1958	1956	
Gandak Catchment	Gorkha . .	22.1	6.0	46.2	23.4	6.1	0.3	29.5	8.4	14.2	34.2	11.4	30.7	35.6	13.9	28.7	35.3	17.8	82.5	30.7	19.8	95.5
	1957	1957	1957	1958	1957	1958	1958	1957	1958	1957	1957	1958	1957	1958	1957	1957	1958	1957	1957	1957	1958	
Gandak Catchment	Pokhara . .	23.1	4.1	54.9	24.5	4.3	9.4	30.2	7.6	24.4	34.1	10.6	122.2	36.6	14.7	52.3	35.9	15.9	173.2	31.3	20.4	135.1
	1957	1957	1957	1957	1957	1958	1958	1957	1958	1957	1957	1958	1957	1958	1958	1958	1958	1957	1958	1958	1958	
Gogra Catchment (Trans-Himalayan Region)	Nawakot . .	23.2	6.4	33.0	26.2	7.6	0	32.3	9.9	10.4	35.6	13.2	24.4	38.3	13.8	36.1	37.9	14.3	48.3	32.3	15.6	64.5
	1958	1957	1957	1958	1957	1958	1958	1957	1958	1958	1958	1957	1958	1957	1958	1957	1958	1957	1957	1958	1957	
Gogra Catchment (Trans-Himalayan Region)	Jamosom . .	19.9	-7.6	17.8	20.0	-3.8	15.2	20.0	-1.1	15.2	24.4	1.4	4.1	26.3	3.2	7.1	25.7	6.5	0.8	26.2	12.3	10.7
	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	
Gogra Catchment (Trans-Himalayan Region)	Timure . .	20.1	1.3	13.7	19.9	2.3	2.5	25.1	5.1	19.1	27.7	10.2	9.9	30.9	10.9	6.1	31.2	15.6	13.5	27.6	16.2	34.3
	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	
Gogra Catchment (Trans-Himalayan Region)	Dailekh . .	21.1	..	36.8	19.9	..	5.1	27.3	..	52.6	30.6	..	25.4	34.3	..	27.7	35.1	16.2	42.7	28.5	19.2	51.6
	1958	..	1958	1957	..	1958	1958	..	1957	1958	1958	..	1958	1957	..	1958	1958	1957	1957	1958	1958	
Gogra Catchment (Trans-Himalayan Region)	Dandeldhura . .	18.5	-1.5	50.3	17.9	-0.2	10.4	23.7	-0.2	49.3	28.5	6.7	18.0	31.6	10.4	8.1	32.4	11.8	59.9	26.1	13.7	65.5
	1957	1957	1958	1957	1957	1957	1957	1958	1957	1958	1958	1957	1957	1958	1957	1957	1957	1957	1957	1958	1957	

X=Highest Maximum Temperature.

N=Lowest Minimum Temperature.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UPTO 1958 (1878-1879 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																	Hydrometeorological Observatories (contd.)
35.6	20.6	175.3	37.2	14.4	158.5	38.9	10.6	45.0	38.8	6.1	15.0	34.4	3.9	4.3	1951	1951	Narbada Catchment
1956	1952	1955	1951	1953	1954	1951	1952	1955	1958	1956	1958	1953	1955	1956			
34.4	21.7	141.0	35.0	19.6	190.3	36.3	8.9	48.3	34.4	5.6	42.2	32.7	2.2	9.7	1951	1951	
1954	1956	1952	1953	1957	1951	1957	1952	1955	1953	1952	1956	1957	1955	1956			
36.1	20.6	209.8	38.9	18.9	116.8	40.6	11.1	52.6	37.8	6.7	11.5	33.9	5.0	7.9	1949	1949	
1953	1950	1957	1951	1952	1954	1949	1955	1955	1951	1956	1958	1957	1952	1956			
34.2	15.8	84.6	33.1	14.7	88.9	37.3	7.2	55.9	33.6	-0.6	0	29.4	-0.6	4.3	1955	1955	
1957	1958	1957	1957	1955	1957	1957	1956	1957	1957	1956	..	1958	1955	1956			
..	..	31.7	31.7	4.1	11.4	0	..	1957	Sainwara (Surajgarh).
..	..	1958	1958	1958	1958		Bikrani.
..	..	114.3	100.8	21.3	14.0	0	..	1956	Tarpal.
..	..	1957	1958	1956	1957		Kotra Cantonment.
..	..	190.5	58.4	31.7	20.3	7.6	..	1956	Dharoi.
..	..	1957	1958	1956	1958	1957	..		Ganga Catchment
36.1	21.1	105.9	36.4	21.1	64.0	39.1	15.6	64.0	37.2	10.6	0	32.2	9.7	0	1956	1956	Gangam Catchment
1957	1956	1957	1958	1958	1957	1958	1958	1957	1957	1956	..	1958	1958	..			
26.7	14.5	83.5	26.1	13.2	73.1	24.8	6.6	113.3	21.9	5.9	30.5	20.2	0.3	77.7	1956	1956	
1957	1957	1958	1958	1957	1956	1957	1957	1956	1958	1957	1957	1957	1958	1957			
36.1	20.0	62.5	35.6	17.4	70.6	33.3	12.7	172.5	31.1	5.2	14.5	26.0	2.2	39.8	1956	1956	
1957	1956	1958	1956	1957	1957	1956	1958	1956	1956	1958	1957	1958	1956	1958			
30.2	19.5	109.5	29.2	18.4	61.7	27.9	13.9	71.4	25.9	11.2	0.8	22.2	7.8	9.9	1957	1957	
1957	1957	1957	1958	1958	1958	1957	1958	1958	1958	1957	1957	1958	1957	1957			
33.4	19.6	284.0	31.7	18.2	128.6	30.4	12.1	52.6	27.7	10.6	2.0	24.3	5.3	19.1	1957	1957	
1957	1957	1957	1958	1958	1958	1957	1957	1958	1958	1957	1957	1958	1957	1957			
33.1	19.2	95.3	31.3	16.8	54.1	30.6	13.2	32.3	28.1	11.9	0	23.9	8.0	6.6	1957	1957	
1957	1958	1957	1958	1957	1958	1957	1957	1958	1958	1957	1957	1958	1957	1957			
26.8	12.3	13.5	25.1	5.6	3.6	24.3	..	35.3	0	0	1958	1958	Gogra Catchment (Trans-Himalayan Region)
1958	1958	1958	1958	1958	1958	1958	..	1958	..	..	..	..	..	..	..	..
27.3	15.6	29.7	28.3	15.1	12.9	25.6	9.5	30.2	23.8	3.9	2.0	19.5	1.6	2.0	1958	1958	
1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	..	..
26.5	17.4	73.6	30.7	17.5	41.1	25.9	14.1	43.4	23.2	8.0	2.3	20.5	5.0	50.0	1957	1957	
1958	1958	1958	1957	1958	1957	1958	1958	1958	1958	1958	1957	1957	1958	1957			
26.8	13.5	73.9	25.1	11.9	78.5	25.2	6.1	109.7	22.4	5.6	8.6	21.3	0.8	86.6	1957	1957	
1957	1957	1958	1958	1957	1957	1957	1958	1958	1957	1957	1957	1957	1958	1957			

R=Heaviest Rainfall in 24 hours ending at 0830 hrs. I. S. T.

.. = Information not available.

TABLE III (A) EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AND

Sub-division and Station	January			February			March			April			May			June			July		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Hydrometeorological Observatories (contd.)																					
Gogra Catchment —(contd.)																					
Munsiyari . .	18·7	—1·9	48·3	17·4	—0·3	9·7	20·7	1·7	25·2	25·5	5·8	52·1	30·8	8·1	32·3	30·2	11·6	25·4	..	..	139·7
	1957	1957	1958	1957	1957	1958	1957	1957	1957	1957	1957	1957	1957	1957	1957	1957	1957	1958	..	..	1958
Sallyana . .	19·7	..	35·8	20·2	..	0	25·5	..	10·2	30·6	..	19·8	..	..	0	..	..	32·0	..	..	61·0
	1957	..	1957	1957	..	..	1957	..	1957	1957	..	1958	..	..	..	..	..	1957	..	..	1957
Butwal . .	26·1	4·6	10·2	28·9	—0·1	1·5	36·6	12·9	5·1	40·8	16·3	17·8	44·0	10·1	7·1	44·4	18·4	55·1	36·7	21·7	228·6
	1958	1958	1958	1957	1957	1958	1958	1957	1958	1957	1958	1958	1958	1957	1958	1958	1958	1958	1957	1957	1958
Bagmati Catchment																					
Katmandu*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Kosi Catchment																					
Chautara . .	22·2	2·8	46·5	23·9	3·9	16·5	28·4	5·8	24·1	32·6	8·3	29·2	35·1	13·6	52·1	34·4	14·4	98·8	28·9	15·4	99·1
	1956	1957	1957	1956	1956	1954	1957	1957	1953	1957	1957	1956	1958	1958	1956	1958	1955	1956	1955	1958	1954
Okhaldunga . .	23·9	—0·6	34·3	22·2	1·6	21·8	25·0	4·2	25·4	28·9	5·8	29·0	29·2	5·6	113·8	29·2	8·9	79·5	27·2	5·6	143·5
	1953	1953	1957	1956	1957	1954	1955	1957	1953	1954	1957	1955	1957	1953	1954	1958	1953	1957	1958	1953	1954
Barahkshetra . .	27·2	7·2	26·2	31·7	8·4	5·6	36·7	11·7	126·2	42·2	17·2	30·2	41·9	19·2	72·4	38·9	21·7	151·6	33·9	22·8	179·8
	1954	1955	1957	1954	1958	1954	1954	1957	1953	1954	1953	1955	1957	1958	1958	1958	1955	1956	1958	1956	1957
Angbung . .	22·2	1·7	38·3	24·4	3·9	10·9	30·0	8·6	27·9	32·2	10·0	43·2	33·8	8·9	75·7	31·8	7·2	103·1	31·1	16·1	82·5
	1957	1953	1957	1955	1953	1957	1953	1957	1953	1957	1957	1953	1957	1954	1953	1958	1954	1957	1958	1953	1957
Taplejung . .	19·2	0	34·8	20·6	1·1	11·2	25·6	3·3	37·6	27·8	6·1	56·6	28·3	10·6	55·9	26·7	12·8	63·0	26·8	15·0	60·5
	1957	1955	1957	1956	1953	1953	1953	1957	1953	1957	1957	1954	1957	1958	1954	1958	1953	1954	1958	1956	1956
Taplethok . .	28·3	0·6	44·7	28·3	3·3	22·9	31·0	5·0	38·3	32·2	8·3	37·6	32·4	11·7	56·4	32·1	15·2	63·5	32·8	15·6	78·2
	1954	1957	1957	1954	1956	1957	1958	1956	1953	1953	1956	1958	1958	1956	1956	1958	1957	1955	1953	1956	1953
Wallungchung Gola . .	10·0	—7·8	30·5	12·2	—7·8	9·4	15·0	—6·5	10·4	18·3	—2·8	12·9	18·3	1·1	28·5	20·6	1·1	32·0	20·6	4·4	44·5
	1953	1957	1956	1954	1955	1956	1954	1957	1956	1954	1954	1953	1954	1955	1955	1958	1956	1955	1953	1956	1954
Bhojpur . .	17·3	1·4	35·0	21·1	3·9	0	25·6	5·9	39·9	29·4	8·7	26·7	29·7	11·7	61·2	28·9	14·8	57·1	26·2	16·1	56·6
	1958	1957	1957	1956	1956	..	1955	1957	1956	1955	1957	1958	1958	1955	1955	1958	1957	1957	1958	1956	1956
Chainpur . .	22·8	3·1	36·8	26·7	5·0	6·3	30·0	8·8	43·2	32·5	9·3	34·3	34·3	13·3	57·1	31·8	15·6	45·2	30·6	16·7	49·8
	1954	1957	1957	1954	1953	1954	1953	1957	1953	1957	1957	1953	1957	1955	1953	1958	1957	1957	1953	1954	1955
Tista Catchment																					
Gangtok . .	19·3	—2·2	63·3	20·6	—1·1	15·8	23·1	4·1	61·0	24·4	5·9	178·1	25·6	11·3	109·7	25·7	12·7	92·9	24·4	14·4	81·8
	1957	1956	1958	1956	1956	1958	1958	1957	1957	1958	1957	1956	1956	1957	1958	1958	1957	1958	1956	1956	1957
Geyzing . .	19·1	1·1	50·8	21·1	3·9	11·2	27·9	2·1	17·5	29·1	7·3	92·5	29·4	13·1	43·4	28·9	13·6	79·8	28·9	14·9	72·6
	1958	1957	1957	1957	1957	1958	1958	1957	1957	1958	1957	1958	1957	1957	1958	1958	1957	1957	1958	1958	1957

*Data included under Hill Stations.

X=Highest Maximum Temperature.

N = Lowest Minimum Temperature.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UPTO 1958 (1878-1879 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station	
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temper- ature	Rainfall		
																	Hydrometeorological Observatories (contd.) Gogra Catchment (contd.)	
..	..	73.7	..	..	45.7	..	..	35.0	..	..	14.5	..	..	82.0	..	1957	Munsiyari.
..	..	1958	..	..	1957	..	..	1958	..	..	1957	..	..	1957	..	1957	Sallyana.
29.4	..	45.7	27.3	..	48.8	..	..	2.8	24.4	..	0	20.6	..	0	1957	1957	Butwal.
1957	..	1957	1957	..	1957	..	..	1957	1957	..	..	1957	..	..	..	..	Bagmati Catchment. Kosi Catchment.
36.8	22.9	157.5	37.8	22.3	13.0	33.4	17.3	112.0	30.7	14.0	0	27.2	6.2	3.8	1957	1957		
1957	1958	1957	1957	1958	1958	1957	1957	1958	1958	1957	..	1958	1958	1957	..	..
..		
..		
28.9	16.1	78.7	28.3	16.1	66.0	27.4	11.6	32.5	26.7	8.9	23.4	22.3	4.4	15.5	1955	1953	Chautara.	
1957	1956	1954	1956	1956	1954	1957	1957	1956	1958	1956	1956	1958	1955	1955	1955	1955	Okhaldunga.	
29.4	15.0	107.2	28.3	10.6	65.5	27.2	7.2	35.1	22.8	5.6	19.8	21.7	2.2	6.1	1953	1953	Barahkshetra.	
1953	1955	1954	1954	1953	1955	1956	1953	1956	1954	1954	1956	1953	1955	1957	1957	1957	Angbung.	
36.7	22.2	149.1	34.4	21.1	91.2	33.9	14.9	136.	30.6	10.6	29.5	28.3	8.9	3.3	1953	1953	Taplejung.	
1957	1956	1958	1958	1961	1956	1956	1957	1953	1953	1953	1956	1955	1954	1957	1957	1957	Taplethok.	
32.6	15.0	53.6	30.6	16.7	63.3	30.4	12.8	63.3	25.6	8.3	1.3	24.4	6.1	7.1	1953	1953	Wallung Chung Gola.	
1957	1954	1957	1953	1953	1957	1957	1953	1957	1954	1953	1955	1953	1953	1957	1957	1957	Bhojpur.	
28.6	16.1	73.7	28.5	13.3	99.8	25.0	8.3	68.3	22.2	5.0	20.1	19.4	0.6	12.7	1953	1953	Chainpur.	
1957	1955	1953	1953	1956	1954	1956	1955	1956	1958	1953	1956	1957	1954	1955	1955	1955	Tista Catchment.	
32.4	15.6	55.1	31.7	15.6	48.8	32.8	9.0	63.0	29.4	7.8	25.4	28.3	4.8	12.5	1953	1953	Gangtok.	
1958	1954	1955	1956	1956	1955	1956	1956	1958	1955	1956	1956	1956	1958	1957	1957	1957	Geyzing.	
19.4	4.4	55.1	19.4	4.4	28.7	18.3	-0.6	21.1	15.6	-3.9	15.7	14.4	-6.7	5.3	1953	1953		
1955	1953	1954	1953	1956	1955	1956	1953	1958	1955	1955	1956	1954	1956	1956	1956	1956		
29.6	15.9	78.0	26.9	15.0	52.6	26.1	10.6	31.5	23.1	8.1	22.9	19.9	4.4	4.6	1955	1955		
1957	1957	1955	1958	1956	1955	1956	1957	1958	1958	1957	1956	1958	1955	1957	1957	1957		
31.7	17.2	69.9	31.1	15.0	45.7	28.9	11.7	67.2	26.3	8.3	0	25.6	6.1	8.9	1953	1953		
1953	1955	1955	1953	1953	1955	1955	1955	1958	1953	..	1953	1955	1957	1957	1957	1957		
27.6	15.1	63.0	26.1	11.7	79.0	25.0	8.1	58.2	21.8	5.6	21.5	20.2	2.8	12.5	1956	1956		
1957	1958	1957	1956	1956	1957	1956	1957	1956	1958	1956	1958	1958	1956	1957	1957	1957		
32.2	17.2	74.7	29.8	15.1	115.3	27.0	10.1	37.8	24.4	9.1	17.0	21.4	6.3	7.6	1957	1957		
1957	1958	1958	1958	1957	1958	1957	1958	1958	1957	1958	1958	1957	1957	1957	1957	1957		

R—Heaviest Rainfall in 24 hours ending at 0830 hrs. I.S.T.

.. = Information not available.

MONTHLY MEANS OF UPPER WINDS,
December, 1958 (Agrahayana 10—Pausa 10, 1880 Saka)

During the month, observations of velocity and direction of upper winds were made at 55 stations in India. Out of these, at 43 stations all the observations, were taken by means of pilot balloons and at 12 stations some observations were made by means of pilot balloons while the other observations by the radiowind method. Particulars of these stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the Table overleaf. All radiowind ascents have been indicated by means of an asterisk (*) against the scheduled hours.

Data from ascents made at the scheduled time or within two hours on either side of the scheduled times of regular observations have been used for averaging.

Data up to 9.0 km. a.m.s.l. are given under Table IV and data above 9.0 km. a.m.s.l. under Table V.

In Tables IV and V :

n—represents the number of observations,

V—represents the mean wind speed in knots irrespective of direction,

v—represents the resultant mean velocity in knots,

D—represents the direction of the resultant mean wind in degrees East of North.

Mean and resultant winds are given in this publication for the following heights :

Surface, 0.15 km. a.g., 0.3, 0.6, 0.9, 1.5, 2.1, 3.0, 3.6, 4.5, 5.4, 6.0, 7.2, 9.0, 10.5, 12.0, 14.1, 16.2, 18.0, 21.0, 24.0, 27.0, 30.0, 33.0 and 36.0 km. a.m.s.l. Of these the levels 1.5, 3.0, 5.4, 7.2, 9.0, 12.0, 14.1, and 16.2 km. a.m.s.l. are considered as the best approximations to the standard pressure levels 850, 700, 500, 400, 300, 200, 150 and 100 mb. respectively.

PARTICULARS OF PILOT BALLOON AND RAWIN STATIONS IN INDIA

Station	Lat. N	Long. E	Height of Anemometer head a.m.s.l. in metres	Date of opening	Approximate times of flight (IST)		
Agartala	23°53'	91°15'	17	28th November, 1951	0530	1730	2330
Ahmedabad	23°04'	72°38'	61	19th May, 1928	0530	1730	2330
Amausi	26°45'	80°53'	132	20th November, 1950	0530	1730	2330
Ambala	30°23'	76°46'	279	1st April, 1941	0530	1730	2330
Amritsar	31°38'	74°52'	243	21st June, 1957	0530*	1730*	
Anantapur	14°41'	77°37'	364	12th February, 1946	0530	1730	2330
Asansol	23°41'	86°59'	135	29th May, 1942	0530	1730	2330
Baghdogra	26°38'	88°19'	140	7th June, 1953	0530	1730	2330
Bairagarh	23°17'	77°21'	532	26th February, 1943	0530	1730	2330
Bamrauli	25°27'	81°44'	103	28th February, 1930	0530*	1130	1730* 2330
Bangalore	12°58'	77°35'	936	19th May, 1915	0530	1730	2330
Bareilly	28°22'	79°24'	180	12th January, 1943	0530	1730	
Begumpet	17°27'	78°28'	543	1st September, 1929	0530	1730	2330
Bhagalpur	25°14'	86°57'	61	19th May, 1950	0530	1730	
Bhubaneshwar	20°15'	85°50'	55	5th December, 1942	0530	1730	2330
Bhuj	23°15'	69°48'	111	14th September, 1937	0530	1730	2330
Bikaner	28°00'	73°18'	229	18th October, 1946	0530	1730	2330
Chikalthana	19°51'	75°24'	583	7th October, 1951	0530	1730	2330
Cochin†	09°56'	76°14'	3	16th March, 1942	0530	1730	2330
Darjeeling	27°03'	88°16'	2115	21st May, 1956	0830	1730	
Dehra Dun.	30°19'	78°03'	692	1st October, 1958	0530	1730	
Dum Dum	22°39'	88°27'	13	14th May, 1921	0530*	1130	1730* 2330
Gadag	15°25'	75°38'	650	3rd May, 1943	0530	1730	2330
Gannavaram	16°32'	80°48'	34	8th April, 1942	0530	1730	2330
Gauhati	26°05'	91°43'	51	12th March, 1955	0530*	1130	1730* 2330
Gaya	24°45'	84°57'	119	19th March, 1937	0530	1730	2330
Gopalpur	19°16'	84°53'	24	15th February, 1946	0530	1730	2330
Gorakhpur	26°45'	83°22'	83	5th January, 1943	0530	1730	
Gwalior	26°14'	78°15'	203	7th May, 1938	0530	1730	2330
Imphal	24°51'	93°58'	805	8th March, 1952	0530	1730	2330
Jabalpur	23°10'	79°57'	402	30th July, 1928	0530	1730	2330
Jagdalpur	19°05'	82°02'	562	25th March, 1948	0530	1730	2330
Jaipur	26°49'	75°48'	404	6th June, 1953	0530	1730	
Jamshedpur	22°49'	86°11'	147	23rd July, 1942	0530	1730	
Jharsuguda	21°55'	84°05'	240	1st May, 1944	0530	1730	2330
Jodhpur	26°18'	73°01'	229	15th October, 1934	0530*	1130	1730* 2330
Madras	13°00'	80°11'	29	8th April, 1926	0530*	1130	1730* 2330
Mangalore	12°52'	74°51'	40	4th June, 1928	0530	1730	2330
Minicoy	08°18'	73°00'	16	14th April, 1941	0530	1730	2330
Mohanbari	27°29'	95°01'	112	1st June, 1948	0530	1730	2330
Nagpur	21°06'	79°03'	316	23rd April, 1943	0530*	1130	1730* 2330
Nanpara	27°50'	81°30'	142	23rd April, 1957	0530	1730	
New Delhi	28°35'	77°12'	227	28th October, 1936	0530*	1130	1730* 2330
Poona	18°32'	73°51'	593	5th January, 1925	0530	1730	2330
Port Blair	11°40'	92°43'	93	29th October, 1945	0530*	1130	1730* 2330
Raipur	21°14'	81°39'	308	15th July, 1944	0530	1730	2330
Raxaul	26°59'	84°51'	83	28th October, 1957	0530	1730	
Santa Cruz.	19°07'	72°51'	14	14th May, 1933	0530*	1130	1730* 2330
Tezpur	26°37'	92°47'	79	12th August, 1932	0530	1730	2330
Tiruchirapalli	10°46'	78°43'	96	22nd June, 1936	0530	1730	2330
Trivandrum	08°29'	76°57'	73	8th December, 1928	0530*	1130	1730* 2330
Udaipur	24°35'	73°42'	587	24th June, 1947	0530	1730	2330
Vengurla	15°52'	73°38'	8	22nd November, 1941	0530	1730	2330
Veraval	20°54'	70°22'	17	13th October, 1941	0530*	1130	1730* 2330
Visakhapatnam	17°43'	83°14'	10	24th September, 1928	0530	1730	2330

*Radiowind ascents.

†Naval Meteorological Office.

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

December 1958 (Agrahayana 10, —Pausa 10, 1880 Saka)

Station	AGARTALA								AHMEDABAD							
	0530		1730		2330		0530		1730		2330					
Time in I. S. T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Ht. in Km.																
Surface	31	0.5	0.1	135	31	1.1	0.7	319	31	0.9	0.6	106	31	4.2	3.3	047
0.15 a.g.	31	5.4	2.2	012	31	5.4	3.6	317	31	6.4	3.0	333	31	15.3	11.3	068
0.3 a.s.l.	31	5.1	3.4	354	31	4.6	3.1	306	31	6.2	3.7	323	31	13.9	9.8	076
0.6 ,,	31	4.7	3.3	347	31	4.2	2.3	295	31	5.0	3.3	311	31	10.7	6.1	087
0.9 ,,	31	4.7	2.5	220	31	4.2	2.2	285	31	4.5	2.2	291	31	8.3	3.2	127
1.5 ,,	31	6.6	2.8	264	31	7.0	4.5	279	31	6.8	3.6	287	31	9.9	5.7	203
2.1 ,,	29	9.6	5.6	280	30	12.4	10.7	282	31	13.0	9.9	277	31	11.3	6.8	214
3.0 ,,	27	15.7	11.6	276	30	18.3	16.9	287	29	18.0	15.4	278	31	12.9	7.6	242
3.6 ,,	17	17.6	12.1	290	14	23.8	23.0	289	14	20.8	17.5	282	9	13.9	11.6	272
4.5 ,,	10	17.5	10.1	319	6	22.7	21.7	284	4	16.3	14.1	282	5	21.8	18.9	260
5.4 ,,	8	22.7	14.9	321	2	16.0	15.7	275	2	20.5	19.3	308				26
6.0 ,,	7	36.4	29.6	323					2	23.0	23.0	306				23
7.2 ,,	4	38.0	36.5	298					1	23.0	23.0	325				14
9.0 ,,	2	30.0	9.1	353												2

Station	AMAUSSI								AMBALA									
	0530		1730		2330		0530		1730		2330							
Time in I. S. T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D		
Ht. in Km.																		
Surface	31	2.4	0.7	263	31	2.7	1.8	303	31	2.2	0.6	289	31	3.3	0.8	338		
0.15 a.g.	29	9.7	3.0	296	31	7.3	3.4	307	31	9.3	3.7	311	30	11.9	4.9	352		
0.3 a.s.l.	29	9.5	2.7	304	31	7.3	3.6	303	31	9.2	3.8	316	30	5.2	1.2	002		
0.6 ,,	28	7.4	3.3	295	31	7.2	4.9	299	31	8.3	6.3	304	30	11.0	4.4	344		
0.9 ,,	28	8.1	5.4	296	30	8.5	7.5	298	30	9.6	8.1	297	29	9.7	3.6	331		
1.5 ,,	28	10.1	9.0	301	30	11.5	9.5	300	30	11.1	9.9	224	28	9.8	5.5	320		
2.1 ,,	25	11.8	9.4	300	28	12.0	11.8	304	26	11.6	9.9	297	28	10.7	7.5	314		
3.0 ,,	12	16.6	14.3	308	21	18.1	17.0	305	15	17.8	16.6	306	25	13.2	10.2	317		
3.6 ,,	5	18.4	17.1	318	18	23.9	22.9	304	3	18.0	18.0	270	11	16.2	14.6	300		
4.5 ,,	2	19.5	19.0	335	12	24.6	24.1	295					4	24.0	22.5	285		
5.4 ,,					3	22.0	22.0	277							19	23.0	21.1	281
6.0 ,,															15	26.9	23.7	277
7.2 ,,															6	30.2	29.4	282
9.0 ,,															2	46.0	45.5	285

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

December 1958 (Agrahayana 10.—Pausa 10, 1880 Saka)

Station	AMRITSAR					ANANTPUR					ASANSOL									
Time in I. S. T.	0530*				1730*	0530				1730	2330				0530					
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	. 31	1.8	0.5	038	31	3.2	0.5	263	31	1.7	1.5	083	31	8.3	7.9	082	31	7.7	7.4	101
0.15 a.g.	. 29	1.8	0.5	015	30	3.2	0.7	235	31	8.0	7.6	099	31	11.5	11.2	090	31	14.5	14.4	107
0.3 a.s.l.	. 29	1.8	0.5	015	30	3.2	0.5	263												31 7.7 4.5 060
0.6 „	. 29	7.3	4.0	350	30	7.7	2.2	234	31	10.3	9.9	101	31	12.0	11.7	089	31	15.6	15.5	106
0.9 „	. 29	6.2	2.4	340	30	7.5	1.0	295	31	14.3	14.0	096	31	11.3	11.1	090	31	16.0	15.7	102
1.5 „	. 29	7.5	2.9	310	30	8.6	3.1	320	31	12.9	11.8	080	31	11.3	11.0	082	31	10.6	10.1	079
2.1 „	. 29	8.8	4.0	269	30	10.1	3.3	246	31	12.1	9.3	068	31	10.1	8.6	071	31	10.3	7.3	067
3.0 „	. 29	11.8	6.0	256	30	12.6	6.3	255	30	9.0	4.6	077	29	11.1	6.3	066	31	9.2	5.3	077
3.6 „	. 29	14.4	9.8	258	30	14.3	10.0	250	27	7.2	1.3	134	28	10.1	5.8	079	29	9.0	3.7	099
4.5 „	. 29	21.4	16.5	263	30	21.0	15.8	257	25	8.4	0.6	179	26	9.6	3.8	089	25	7.9	3.0	107
5.4 „	. 28	25.3	22.4	268	29	27.2	23.8	265	23	8.6	0.6	160	24	9.3	3.7	102	21	8.6	1.8	190
6.0 „	. 27	30.9	31.1	268	28	30.2	27.1	266	21	8.9	2.8	257	23	10.0	1.6	113	16	8.1	2.5	210
7.2	. 27	38.4	36.3	271	27	40.2	37.1	268	14	10.4	5.6	226	19	10.3	5.4	231	9	12.7	4.6	232
9.0	. 25	52.6	46.4	269	22	51.8	48.6	265	7	16.4	8.5	272	14	16.7	13.0	224				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

December 1958 (Agrahayana 10, —Pausa 10, 1880 Saka)

Station	BAIRAGARH								BAMRAULI															
	1730				2330				0530*				1130				1730*				2330			
Time in I. S. T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3.2	1.4	350	31	3.7	2.0	072	31	1.3	0.6	256	31	2.9	1.9	277	31	2.0	1.2	342	31	1.6	0.5	350
0.15 a.g.	31	6.3	2.3	007	31	9.4	5.2	083	29	8.4	3.2	258	29	5.2	3.3	273	31	8.8	6.6	325	30	9.2	4.0	001
0.3 a.s.l.	.								29	8.4	3.2	258	29	5.3	3.6	276	31	8.8	6.6	325	30	9.2	4.2	347
0.6 ,,	31	6.1	2.2	005	31	9.8	5.6	081	29	8.8	5.6	300	29	6.3	4.8	294	31	7.5	5.2	303	30	9.4	5.8	313
0.9 ,,	31	5.9	2.2	360	31	7.5	3.1	076	29	9.7	7.9	298	30	8.5	7.0	296	31	8.2	7.3	287	30	10.0	8.6	290
1.5 ,,	31	5.9	2.7	327	31	6.7	2.6	306	29	12.3	10.7	298	30	11.7	9.9	304	31	10.1	8.7	289	30	12.2	9.7	290
2.1 ,,	31	7.3	4.0	308	31	8.4	4.3	280	29	13.9	11.8	298	29	12.6	11.3	302	31	12.7	10.8	303	25	11.8	10.1	310
3.0 ,,	29	11.5	8.3	283	30	11.1	7.8	282	29	18.5	16.7	300	25	17.6	16.3	309	31	18.2	17.1	295	19	15.8	14.2	311
3.6 ,,	27	12.5	9.3	285	4	11.3	7.5	263	28	20.7	18.5	245	24	19.9	18.1	300	30	21.2	19.9	292	2	17.0	16.6	306
4.5 ,,	26	17.3	13.7	286					28	25.9	24.6	288	21	22.8	20.9	298	30	25.7	24.7	283				
5.4 ,,	22	21.9	18.3	283					28	31.3	28.8	275	20	27.2	24.6	295	30	31.7	28.8	281				
6.0 ,,	19	25.7	23.2	276					27	35.0	30.8	272	16	28.0	26.0	289	30	34.7	32.0	280				
7.2 ,,	8	29.2	28.7	268					26	41.7	39.9	267	11	34.5	33.7	283	30	39.6	37.7	269				
8.0 ,,	2	34.5	34.5	265					23	48.1	47.7	268	5	35.8	35.4	282	24	52.7	50.5	268				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

December, 1958 (Agrahayana 10—Pausa 10, 1880 Saka)

Station	BEGUMPET				BHAGALPUR				BHUBANESHWAR															
	1730		2330		0530		1730		0530		1730													
Time in I. S. T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D								
Ht. in Km.																								
Surface .	31	4.8	4.2	091	31	2.2	2.0	092	31	2.8	2.3	243	31	4.1	3.7	285	31	2.6	2.2	346	31	2.0	0.7	037
0.15 a.g. .	31	7.2	6.6	090	31	12.2	11.0	091	30	6.5	4.9	300	31	8.2	7.7	297	31	6.6	4.4	348	31	6.2	3.2	051
0.3 a.m.s.l. .									30	6.3	4.8	301	31	7.7	7.1	297	31	5.9	2.6	023	31	5.9	3.5	048
0.6 ,,	31	7.1	6.9	091	31	7.6	6.8	085	30	7.1	5.1	304	31	8.0	7.4	297	31	5.7	3.4	018	31	4.9	3.3	040
0.9 ,,	31	7.8	7.2	080	31	13.1	11.9	094	30	7.8	5.9	290	31	8.7	8.0	294	31	6.5	5.0	017	31	4.8	3.2	026
1.5 ,,	31	6.9	6.1	060	31	9.7	7.7	082	29	10.3	8.5	287	30	10.4	8.4	288	31	7.9	5.7	012	30	6.8	4.8	354
2.1 ,,	31	7.3	5.6	035	31	9.1	5.1	026	24	13.0	10.3	299	27	12.6	10.1	297	30	8.6	5.6	347	28	9.7	7.2	338
3.0 ,,	30	11.4	2.9	018	30	10.0	2.3	004	16	13.8	12.1	303	19	15.8	15.1	293	27	11.4	8.4	320	26	13.4	11.1	317
3.6 ,,	28	12.7	2.9	348	14	10.0	2.6	298	10	19.4	18.3	299	11	17.4	16.6	296	19	14.4	10.6	313	20	16.2	14.0	301
4.5 ,,	26	13.2	3.7	311	1	14.0	14.0	260	6	23.0	21.5	294	4	20.0	19.4	293	7	16.0	13.4	305	7	17.9	13.9	271
5.4 ,,	25	14.5	6.2	274					3	14.3	13.4	286	1	31.0	31.0	270					3	13.7	13.6	303
6.0 ,,	24	16.3	10.3	269					3	18.0	16.2	293								2	17.5	16.7	297	
7.2 ,,	18	16.7	12.7	268					1	20.0	20.0	300												
9.0 ,,	8	20.3	16.3	250					1	27.0	27.0	300												
Station	BHUBANESHWAR				BHUJ				BIKANER															
Time in I.S.T.	2330		0530		1730		2330		0530		1730													
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D								
Surface .	31	1.9	0.5	025	31	1.0	0.8	027	31	5.4	2.2	023	31	1.9	1.1	333	31	0.9	0.2	303	31	1.4	0.5	292
0.15 a.g. .	31	8.2	3.8	130	31	10.5	7.8	041	31	9.0	5.6	019	31	11.1	6.8	163	27	9.6	3.0	063	31	5.4	2.9	359
0.3 a.m.s.l. .	31	7.7	3.6	127	31	11.6	7.1	046	31	9.2	5.6	017	31	11.4	7.1	022	27	9.0	2.6	081	31	4.9	2.5	357
0.6 ,,	31	5.7	1.3	058	31	11.8	5.0	045	31	8.8	4.5	019	31	11.0	7.8	040	26	7.7	1.1	316	31	6.0	2.2	349
0.9 ,,	31	6.0	3.8	358	31	15.8	7.9	099	31	8.1	3.8	019	31	10.5	5.2	065	26	6.7	3.8	273	31	6.8	2.1	336
1.5 ,,	31	8.9	7.7	358	31	15.2	4.0	220	31	7.5	0.7	137	31	11.1	4.6	184	25	10.0	6.4	256	31	9.5	4.4	260
2.1 ,,	30	8.3	5.9	344	31	9.9	5.2	255	31	10.4	5.3	223	30	10.0	5.8	233	23	11.0	6.7	263	30	10.1	6.7	255
3.0 ,,	29	12.1	9.6	315	31	11.6	8.3	257	31	13.6	9.5	253	30	12.6	9.0	260	24	12.0	9.5	268	26	14.2	11.8	264
3.6 ,,	15	15.0	10.8	304	2	15.0	14.7	268	30	15.5	11.6	260	7	15.6	12.7	235	16	13.9	10.9	273	26	17.3	15.0	273
4.5 ,,	11	17.3	14.0	301	2	20.0	18.9	275	30	19.7	15.6	260	5	14.4	13.1	250	2	24.5	24.4	260	22	24.1	21.3	272
5.4 ,,	8	17.4	15.1	287	2	24.5	24.4	263	29	23.8	21.0	261								20	27.2	24.4	268	
6.0 ,,	3	21.0	21.0	267	2	23.5	23.3	274	28	26.8	24.5	269								16	26.5	24.5	272	
7.2 ,,									13	34.0	31.2	273								8	30.3	28.8	288	
9.0 ,,									4	50.5	49.7	277								3	44.7	44.2	290	

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

December, 1958 (Agrahayana 10—Pausa 10, 1880 Saka)

Station	BIKANER				CHIKALTHANA								COCHIN											
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1.4	1.2	010	31	1.7	1.6	104	31	1.9	1.3	102	31	2.1	1.5	069	31	1.3	1.2	055	31	4.7	4.4	257
0.15 a.g. . .	30	9.2	5.5	038	31	12.5	11.2	096	31	5.0	3.7	108	31	13.0	11.1	068	31	7.7	7.3	078	31	6.2	5.7	270
0.3 a.m.s.l. . .	30	8.3	4.5	041													31	8.1	7.4	086	31	5.9	4.8	292
0.6 . , .	30	7.6	2.3	034													31	6.4	5.5	082	31	5.5	4.5	019
0.9 . , .	30	6.7	0.5	268	31	14.0	12.6	112	31	5.5	4.1	099	31	13.5	11.5	078	31	5.2	4.4	086	31	7.4	6.6	045
1.5 . , .	29	9.9	4.7	246	31	8.1	6.0	122	31	5.4	3.0	075	31	8.7	6.8	099	31	6.0	4.0	075	31	11.3	10.5	087
2.1 . , .	28	11.5	6.0	263	31	8.1	2.7	242	31	5.7	2.1	065	31	8.5	3.4	159	30	7.2	5.1	083	30	8.8	7.8	081
3.0 . , .	26	15.1	11.0	260	30	11.1	3.1	279	29	8.3	0.9	251	31	10.4	3.3	253	27	7.6	4.0	074	26	7.7	4.7	068
3.6 . , .	17	16.8	14.8	281	24	11.2	4.0	301	25	10.1	1.8	240	17	13.5	3.4	253	26	9.0	5.0	086	21	8.2	4.6	058
4.5 . , .	5	15.8	15.3	280	11	12.5	7.3	318	21	13.3	2.1	232	2	17.5	17.5	257	17	8.3	5.7	088	19	7.3	3.3	036
5.4 . , .					1	22.0	22.0	260	21	15.8	7.9	295	2	23.0	22.9	264	8	10.0	4.0	134	8	8.1	3.6	056
6.0 . , .									16	17.7	11.0	280					3	10.0	4.1	160	3	10.3	4.5	038
7.2 . , .									10	27.5	23.9	271					2	8.0	4.1	214				
9.0 . , .									1	26.0	26.0	290												
Station	COCHIN				DARJEELING								DEHRA DUN				DUM DUM							
Time in I. S. T.	2330				0830				1730				0530				1730				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1.4	1.2	092	31	0.7	0.3	123	31	0.8	0.7	239	31	2.1	1.7	008	31	1.8	0.9	239	31	0.4	0.4	001
0.15 a.g. . .	29	5.8	2.5	110	12	2.5	0.9	132	2	3.0	2.6	300	29	3.6	1.9	085	30	5.5	3.0	248	31	6.8	4.9	018
0.3 a.m.s.l. . .	29	6.1	2.6	107																31	6.7	4.8	013	
0.6 . , .	29	7.3	5.1	097																31	6.7	4.7	354	
0.9 . , .	29	8.6	7.4	097									29	3.0	1.6	106	30	5.4	3.3	250	31	7.4	5.3	340
1.5 . , .	29	8.5	7.4	080									29	3.2	0.4	330	30	3.7	1.4	326	31	10.5	9.5	320
2.1 . , .	28	7.9	6.8	071									29	6.6	3.3	302	28	7.7	2.0	297	31	11.6	10.1	318
3.0 . , .	23	8.4	4.3	080	12	5.7	2.3	269	2	3.5	1.5	337	28	13.1	8.8	309	25	12.5	8.7	299	31	15.4	14.2	299
3.6 . , .	12	9.3	5.6	085	12	17.7	11.3	296	2	9.5	7.7	026	24	14.4	9.4	303	21	12.6	7.5	293	..	..	..	..
4.5 . , .	5	8.4	8.3	073	10	23.0	22.3	275	2	31.5	13.3	342	20	20.7	17.5	284	20	18.3	15.1	285	30	22.4	19.3	289
5.4 . , .	3	11.0	11.0	083	7	20.6	18.2	281					8	27.6	23.3	273	15	22.7	21.3	279	30	28.4	26.5	282
6.0 . , .	1	1.0	1.0	305	6	24.1	19.6	294					3	45.7	44.2	278	10	30.8	29.7	279	30	32.5	22.7	282
7.2 . , .					4	22.7	14.2	296					2	41.0	41.0	263	30	39.9	37.3	276				
9.0 . , .					2	38.0	37.9	295												23	44.7	31.7	269	

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

December 1958 (Agrahayana 10—Pausa 10, 1880 Saka)

Station	DUM DUM								GADAG																
	1130				1730*				2330				0530				1730				2330				
Time in I. S. T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Surface . .	31	2.9	1.8	344	31	0.1	0.1	360	31	0.9	0.6	034	31	7.2	6.7	110	31	6.5	6.5	091	31	7.3	7.2	091	
0.15 a.g. . .	31	5.1	3.7	340	31	6.6	5.7	337	31	7.2	4.5	017	31	16.1	15.7	112	31	10.9	10.4	087	31	17.8	17.4	084	
0.3 a.m.s.l. . .	31	5.2	4.0	340	31	6.3	5.6	330	31	6.9	4.3	080													
0.6 . , .	31	6.2	5.1	334	31	6.4	5.6	336	31	6.7	4.8	349													
0.9 . , .	31	7.6	6.4	331	31	7.3	6.2	334	31	7.5	5.9	330	31	16.4	15.9	105	31	11.1	10.5	084	31	18.3	18.0	086	
1.5 . , .	31	10.5	9.2	322	31	9.0	8.0	324	30	9.7	8.8	321	31	13.2	12.0	083	31	11.5	11.3	085	31	14.9	14.7	090	
2.1 . , .	30	12.3	10.4	304	31	11.6	11.1	307	28	12.3	11.2	305	31	1.8	7.1	071	31	11.7	10.6	084	31	11.5	9.8	088	
3.0 . , .	29	17.8	16.3	295	31	17.3	16.3	292	20	12.3	10.9	299	31	11.8	5.0	085	26	10.3	6.4	070	30	11.3	5.7	062	
3.6 . , .	28	23.3	21.3	291	..	..	..	..	2	18.0	17.9	328	27	11.0	3.2	081	23	10.9	2.8	087	28	11.6	2.3	080
4.5 . , .	27	23.1	26.6	290	31	24.1	23.0	289				21	10.0	1.2	039	20	10.5	1.7	232	17	9.6	2.1	270		
5.4 . , .	24	32.3	29.9	286	31	29.9	28.3	292				7	10.3	6.1	250	19	7.8	2.2	254	10	9.2	3.7	282		
6.0 . , .	22	33.6	25.2	285	31	33.4	31.3	282				6	8.3	7.3	254	18	10.0	3.9	258	4	9.0	7.2	273		
7.2 . , .	13	44.1	42.5	276	30	39.9	36.5	281								16	12.5	10.9	237	1	28.0	28.0	250		
9.0 . , .	5	47.4	43.0	276	25	51.8	50.0	271								12	21.4	19.7	233						
Station	GANNAVARAM								GAUHATI																
Time in I. S. T.	0530				1730				2330				0530*				1130				1730*				
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Surface . .	31	3.9	3.7	036	31	3.3	3.1	032	31	3.8	3.5	077	31	0.2	0.2	098	31	2.3	1.8	033	31	1.1	0.9	049	
0.15 a.g. . .	30	10.9	10.6	064	31	5.7	5.3	079	31	11.3	10.9	097	31	4.9	1.6	285	31	4.4	3.1	021	31	7.1	2.7	036	
0.3 a.m.s.l. . .	30	11.1	10.7	079	31	5.9	5.4	076	31	12.5	11.9	094	31	5.9	2.3	076	31	4.3	2.7	035	31	6.2	2.0	057	
0.6 . , .	30	10.7	9.9	083	31	6.5	6.0	069	31	10.8	10.2	084	31	6.9	3.7	093	31	5.3	2.6	071	31	6.3	0.9	323	
0.9 . , .	31	9.1	8.2	065	31	6.6	5.8	056	31	8.6	8.0	071	31	7.9	3.1	086	31	6.2	1.8	119	31	6.6	1.5	263	
1.5 . , .	31	8.1	5.5	048	30	7.5	5.9	040	31	8.1	6.2	044	31	7.1	0.7	245	30	7.5	2.8	177	31	7.7	5.1	240	
2.1 . , .	26	6.8	1.9	053	30	7.9	4.2	034	31	9.1	4.9	044	31	8.1	0.7	143	30	7.9	3.3	197	31	8.8	6.1	236	
3.0 . , .	24	7.8	1.8	020	31	10.9	3.8	026	29	9.7	1.8	037	31	12.4	4.7	290	29	15.7	11.1	261	31	16.3	11.8	268	
3.6 . , .	22	9.8	3.1	033	30	11.6	4.3	008	14	7.3	2.3	266	31	28.7	18.8	277	26	24.1	20.4	267	31	23.1	20.9	270	
4.5 . , .	18	12.1	1.6	321	29	11.9	2.4	294	11	11.5	1.4	195	31	30.7	28.2	278	18	33.9	30.5	273	31	31.9	30.0	273	
5.4 . , .	16	13.8	7.9	265	26	12.1	5.6	259	7	10.1	3.0	058	31	38.1	36.1	280	12	26.3	22.9	275	31	36.5	35.1	279	
6.0 . , .	15	15.0	10.1	259	24	13.6	7.8	259	6	12.3	4.8	314	31	42.3	40.4	279	9	29.5	27.4	281	31	41.6	40.0	278	
7.2 . , .	12	17.3	12.9	269	20	16.8	12.3	246	1	7.0	7.0	185	31	53.6	53.3	280	7	36.4	35.4	277	31	52.3	50.7	279	
9.0 . , .	5	25.8	25.3	254	9	22.8	19.4	249				14	59.0	58.0	279	3	36.3	36.0	275	13	64.4	61.5	282		

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

December 1958 (Agrahayana 10—Pausa 10, 1880 Saka)

Station	GAUHATI				GAYA								GOPALPUR											
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1.3	0.6	059	31	2.4	1.2	227	31	3.9	3.0	332	31	1.2	0.8	242	31	4.5	4.4	335	31	3.9	3.6	095
0.15 a.g. . .	31	4.6	0.9	119	31	5.9	2.5	262	31	8.0	7.1	327	31	7.9	4.4	353	31	9.1	8.1	347	31	7.8	7.4	088
0.3 a.m.s.l. . .	31	4.9	0.9	102	31	6.0	2.8	280	31	8.1	7.1	326	31	7.9	4.9	348	31	6.3	4.8	026	31	7.7	6.9	077
0.6 . , .	31	6.2	1.5	070	31	6.7	4.3	303	31	7.4	6.7	305	31	8.1	5.4	312	31	6.1	4.9	042	31	6.8	6.1	048
0.9 . , .	31	5.7	0.4	347	30	8.5	6.9	295	31	8.1	7.6	290	30	9.6	7.9	282	31	6.7	5.5	034	31	7.4	6.3	006
1.5 . , .	31	5.4	1.4	241	30	10.2	8.9	293	31	11.3	10.1	289	31	11.7	10.4	280	31	7.4	5.4	014	31	9.3	7.8	337
2.1 . , .	29	5.9	2.1	246	28	12.6	10.2	298	29	13.9	10.7	291	31	13.8	11.6	288	30	7.7	3.8	339	31	8.6	5.7	330
3.0 . , .	24	11.1	6.5	258	23	18.6	16.6	307	18	18.4	16.6	301	24	17.7	15.9	300	30	11.2	6.9	319	30	12.7	9.5	318
3.6 . , .	8	18.4	15.0	272	13	22.3	21.1	304	10	22.5	20.6	308	13	23.3	22.3	305	26	12.9	7.9	312	28	15.4	11.5	300
4.5 . , .	6	26.7	23.6	281	5	22.2	20.9	305					1	36.0	36.0	320	8	17.7	15.8	270	17	18.2	14.4	280
5.4 . , .	3	24.3	23.5	271	1	18.0	18.0	280									2	21.0	19.9	240	13	20.8	19.0	267
6.0 . , .	1	26.0	26.0	260													1	25.0	25.0	260	9	22.4	19.0	269
7.2 . , .																				2	22.5	22.0	219	
9.0 . , .																				1	19.0	19.0	210	
Station	GOPALPUR				GORAKHPUR								GWALIOR											
Time in I.S.T.	2330				0530				1730				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1.4	1.4	324	31	1.7	1.4	267	31	1.8	1.6	277	31	0.8	0.4	241	31	2.3	1.7	337	31	0.8	0.3	222
0.15 a.g. . .	31	5.0	1.9	065	29	7.8	5.7	295	31	6.6	5.4	274	31	8.5	1.6	122	31	7.5	5.3	351	31	8.2	3.8	062
0.3 a.m.s.l. . .	31	5.2	3.5	090	29	7.9	6.0	294	31	6.7	5.6	273	31	6.9	1.1	137	31	7.0	5.0	349	31	6.8	3.1	061
0.6 . , .	31	5.2	4.7	064	27	7.3	5.6	293	30	7.4	6.1	275	31	8.1	0.5	271	31	7.6	5.1	331	31	7.4	1.5	350
0.9 . , .	31	6.5	5.6	037	27	7.3	5.0	285	28	7.5	6.1	277	31	8.4	4.2	285	31	7.9	5.3	303	31	8.2	4.8	281
1.5 . , .	31	7.8	6.3	001	27	9.7	6.9	287	28	9.8	7.2	299	31	10.2	7.8	299	31	10.0	7.2	297	31	11.3	7.7	280
2.1 . , .	31	7.7	4.3	331	24	10.2	7.1	287	24	10.5	7.6	300	31	12.7	9.9	300	31	12.2	9.8	293	31	12.5	8.9	286
3.0 . , .	28	10.5	7.1	323	19	17.0	15.2	311	17	18.5	17.0	36	26	14.2	12.1	30	30	16.6	13.5	290	25	15.8	12.8	295
3.6 . , .	27	13.6	9.1	305	5	27.2	27.1	307	5	27.0	26.5	306	19	16.6	14.1	285	28	19.0	16.3	290	14	15.9	13.2	280
4.5 . , .	17	14.6	10.8	293	1	36.0	36.0	300	1	35.0	35.0	325	8	18.3	15.9	28	25	21.6	19.9	288	2	18.0	14.9	288
5.4 . , .	3	23.0	20.6	289									1	21.0	21.0	325	21	25.2	23.4	284				
6.0 . , .	2	24.0	21.9	287									1	19.0	19.0	310	18	27.6	25.4	278				
7.2 . , .													1	29.0	29.0	315	9	31.9	29.8	275				
9.0 . , .													1	27.0	27.0	290	1	62.0	62.0	260				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

December 1958 (Agrahayana 10—Pausa 10, 1880 Saka)

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

December 1958 (Agrahayana 10, Pausa 10, 1880 Saka)

Station	JAMSHPUR				JHARSUGUDA								JODHPUR											
	1730				0530				1730				2330				0530*				1130			
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Ht. in Km.																								
Surface . . .	31	1.6	1.0	029	31	2.9	2.8	012	31	2.2	0.9	244	31	1.0	0.6	009	31	5.4	4.7	032	31	4.0	1.9	054
0.15 a.g. . .	30	4.0	2.9	006	30	7.8	7.1	033	31	5.2	2.6	269	30	5.3	3.1	273	31	6.2	4.7	027	31	5.0	2.0	101
0.3 a.m.s.l. . .	30	4.1	3.2	007	30	7.6	7.1	022	31	5.5	2.8	258	30	4.3	1.0	299	31	6.0	4.7	030	31	4.4	1.9	080
0.6 „ . .	31	4.3	3.1	342	30	7.0	4.1	020	31	4.6	2.8	296	30	5.5	3.1	275	31	7.3	3.3	020	31	6.0	1.1	134
0.9 „ . .	31	5.2	3.4	314	30	6.0	3.0	327	31	4.1	3.2	310	30	4.8	2.3	269	3	7.5	2.6	282	31	7.1	2.0	215
1.5 „ . .	31	9.1	8.0	299	30	6.0	3.0	302	31	5.6	4.7	336	30	6.2	2.0	016	31	10.1	6.1	253	30	10.4	6.1	228
2.1 „ . .	31	12.2	10.9	303	29	9.1	7.4	328	31	8.4	7.6	334	29	8.2	5.0	334	30	11.3	8.5	250	30	13.2	9.0	234
3.0 „ . .	27	16.5	15.6	300	28	14.1	11.4	309	30	14.0	12.1	309	28	14.0	12.3	310	30	14.2	11.0	258	29	13.5	9.3	243
3.6 „ . .	15	17.2	15.8	304	21	15.8	13.0	305	25	18.3	15.5	304	23	17.6	15.1	292	30	16.6	14.0	258	27	15.5	11.9	256
4.5 „ . .	1	19.0	19.0	310					11	23.0	21.0	287					30	26.8	19.0	260	25	19.2	17.0	265
5.4 „ . .									1	37.0	37.0	260					29	29.0	27.0	262	23	23.2	21.4	267
6.0 „ . .																29	34.0	32.2	259	19	27.8	26.2	272	
7.2 „ . .																27	41.7	41.0	262	12	34.7	33.5	267	
9.0 „ . .																22	53.8	52.5	264	2	37.5	37.3	282	
Station	JOHDPUR								MADRAS															
Time in I.S.T.	1730*				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . . .	29	4.4	1.8	349	31	5.0	4.0	027	31	4.8	4.2	048	31	7.3	6.6	025	31	13.2	6.7	051	31	4.8	4.1	013
0.15 a.g. . .	29	5.0	2.5	342	31	10.4	7.6	31	31	12.8	12.2	058	31	11.2	10.6	031	30	15.1	14.6	056	31	12.2	11.6	040
0.3 a.m.s.l. . .	29	5.0	2.3	350	31	9.3	7.0	031	30	13.6	13.2	060	31	12.1	11.9	035	30	15.3	14.9	056	31	13.0	12.7	048
0.6 „ . .	29	5.8	2.3	330	31	9.9	5.8	048	30	13.8	13.4	060	31	13.5	13.2	040	30	14.6	14.3	055	31	15.2	14.7	054
0.9 „ . .	29	6.4	2.2	313	31	8.0	1.3	094	30	14.3	13.8	062	29	14.0	13.5	047	30	13.9	13.5	052	31	15.4	14.6	058
1.5 „ . .	29	7.7	4.2	265	30	8.3	4.1	217	30	13.0	12.1	063	20	13.3	12.7	054	30	11.7	9.9	069	30	13.2	12.0	060
2.1 „ . .	29	10.0	6.0	246	29	11.1	5.4	222	30	10.9	8.9	069	12	11.1	9.3	065	30	10.4	9.1	055	28	10.8	8.3	060
3.0 „ . .	28	14.5	11.0	249	27	18.7	9.3	254	30	9.9	6.5	068	8	12.4	10.2	070	29	9.5	6.9	298	24	10.4	7.3	069
3.6 „ . .	28	17.6	13.5	255	9	14.4	10.4	278	29	9.7	4.1	103	6	14.8	7.8	056	29	9.4	5.8	062	11	8.8	5.9	096
4.5 „ . .	27	22.6	18.7	265	1	14.0	14.0	275	29	9.9	4.2	119	4	14.0	7.1	037	28	10.0	2.9	111	2	13.0	11.8	120
5.4 „ . .	26	29.6	27.0	266					29	10.0	4.8	110	4	13.3	11.7	069	28	9.8	4.3	127				
6.0 „ . .	26	34.5	29.5	265					29	9.2	4.5	109	4	12.5	11.0	076	28	10.4	4.7	119				
7.2 „ . .	24	44.2	42.5	262					29	10.5	3.3	187					28	12.7	2.3	193				
9.0 „ . .	19	60.7	57.9	260					26	16.5	10.8	238					27	17.0	11.6	229				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

December 1958 (Agrahayana 10—Pausa 10, 1880 Saka)

Station	MANGALORE								MINICOY																
	0530				1730				2330				0530				1730				2330				
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Surface . .	31	7.7	7.5	091	31	6.9	4.9	285	31	4.0	3.0	61	31	2.6	1.8	067	31	3.5	2.9	045	31	3.2	2.7	056	
0.15 a.g. . .	31	12.7	11.3	083	31	8.8	6.2	292	31	7.0	4.9	358	30	5.7	3.7	052	31	6.9	6.3	039	31	6.8	6.2	049	
0.3 a.m.s.l. . .	31	12.7	10.7	081	31	8.5	5.4	299	31	7.3	4.7	354	30	6.1	4.4	054	31	7.5	6.8	039	31	6.9	6.3	051	
0.6 . . .	31	13.5	11.7	087	31	6.5	1.9	021	31	7.9	4.8	019	30	7.5	6.4	062	31	7.7	6.9	050	31	7.8	7.2	055	
0.9 . . .	31	14.6	13.2	095	31	7.2	6.2	082	31	8.0	6.0	056	30	9.4	8.7	069	31	8.3	7.6	050	31	8.4	7.8	064	
1.5 . . .	31	13.1	11.7	100	31	14.1	13.6	083	31	12.3	11.8	089	29	9.4	8.9	073	26	7.8	6.2	069	31	8.5	7.5	074	
2.1 . . .	31	11.1	9.5	100	31	16.2	15.5	081	31	15.5	15.0	094	23	6.5	4.9	084	24	7.0	4.1	066	30	8.6	6.7	075	
3.0 . . .	27	10.0	6.5	079	29	11.5	7.4	078	29	10.3	7.1	086	21	5.9	3.4	091	19	7.2	4.4	060	28	7.1	5.1	075	
3.6 . . .	7	6.7	4.5	045	27	11.1	4.7	068	21	9.2	1.5	071	15	7.1	4.0	104	18	7.8	4.6	089	26	7.9	6.2	099	
4.5 . . .					26	10.5	5.2	075	17	9.2	3.0	103	8	8.7	3.5	129	17	8.8	6.7	100	17	7.5	4.9	137	
5.4 . . .					22	9.6	4.1	085	5	10.2	8.6	097	1	8.0	8.0	180	15	10.3	8.3	089	5	8.4	4.2	146	
6.0 . . .					21	8.7	2.9	088	2	11.0	10.4	071	1	13.0	13.0	080	13	11.7	7.9	089	2	15.0	10.4	125	
7.2 . . .					16	7.9	3.4	178					1	15.0	15.0	050	11	9.4	1.5	099					
9.0 . . .					9	15.0	11.7	255					1	10.0	10.0	060	7	14.4	6.8	259					
Station	MOHANBARI								NAGPUR																
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*				
Ht.in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Surface . .	31	0.2	0.2	060	31	0.2	0.2	045	31	0.2	0.2	045	31	2.3	2.1	352	31	2.4	1.6	087	31	2.6	2.3	077	
0.15 a.g. . .	25	7.4	7.0	048	30	4.3	2.8	031	31	5.5	5.0	040	31	9.3	6.9	051	31	3.7	2.2	091	31	7.9	4.4	072	
0.3 a.m.s.l. . .	25	7.2	6.9	049	30	4.0	2.7	034	31	5.4	4.9	047													
0.6 . . .	25	5.4	5.3	041	30	3.3	2.5	055	31	5.0	4.7	055	31	8.2	6.6	065	31	4.6	3.2	081	31	6.0	4.7	040	
0.9 . . .	25	4.4	3.8	048	30	3.6	2.8	069	31	4.3	3.8	063	31	6.8	4.2	076	31	5.2	2.8	056	31	4.5	3.2	038	
1.5 . . .	22	3.3	1.7	060	28	3.2	1.2	175	29	3.6	0.9	121	31	7.6	3.2	354	31	7.4	3.5	006	31	6.1	4.2	359	
2.1 . . .	21	3.6	0.6	188	27	5.7	4.6	224	29	4.6	2.6	253	31	9.1	5.5	327	31	9.1	5.6	342	31	8.7	5.7	341	
3.0 . . .	19	5.4	0.4	230	26	6.4	3.2	222	23	5.0	2.3	244	31	10.8	6.9	054	31	9.5	5.5	320	31	9.9	5.5	294	
3.6 . . .	15	10.6	5.9	273	12	4.2	2.0	217	8	8.3	4.9	257	31	11.8	8.6	298	29	12.6	7.4	290	31	12.7	8.6	283	
4.5 . . .	7	17.4	17.1	282	1	7.0	7.0	283	1	37.0	37.0	235	31	16.3	12.0	277	29	16.5	12.1	272	31	16.4	12.2	271	
5.4 . . .	5	20.4	14.8	298					1	32.0	32.0	270	31	20.6	17.0	270	28	20.6	17.0	268	31	21.2	18.3	271	
6.0 . . .	5	18.4	15.5	303						29	23.9	21.5	269	28	23.9	21.4	268	31	25.2	22.3	269				
7.2 . . .	4	21.7	20.0	298						28	30.0	27.4	264	24	30.3	27.7	264	31	28.4	26.5	263				
9.0 . . .										27	40.1	38.3	243	12	41.3	37.8	269	30	39.9	37.3	264				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

December 1958 (Agrahayana 10, —Pausa 10 1880 Saka)

Station	NAGPUR				NANPARA				NEW DELHI															
	2330				0530				1730				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	2.8	2.1	080	31	1.9	1.1	324	31	1.7	1.3	271	31	2.6	1.2	302	31	5.3	2.2	290	31	3.8	1.5	290
0.15 a.g. . .	31	7.3	6.4	099	27	6.9	4.9	312	31	6.7	5.2	281	31	9.9	4.5	323	29	7.7	1.8	286	30	10.0	4.5	311
0.3 a.m.s.l. . .					27	6.9	4.7	311	31	6.8	5.6	279	31	8.0	2.9	320	29	6.2	1.6	298	30	8.9	5.3	310
0.6 , , .	31	7.2	6.2	096	25	6.8	5.3	304	28	7.2	6.0	281	31	9.7	5.1	228	29	9.3	2.6	271	30	10.0	4.8	302
0.9 , , .	31	6.8	5.1	070	25	6.8	4.1	296	28	7.7	6.6	287	31	10.4	6.2	307	28	10.0	4.0	283	30	9.8	5.5	295
1.5 , , .	31	7.6	5.6	009	22	10.2	7.1	303	26	9.8	6.3	299	31	12.6	8.6	242	28	11.4	5.6	282	30	10.2	6.9	292
2.1 , , .	29	6.7	3.9	358	20	10.0	5.4	300	24	9.8	6.3	307	31	13.7	9.9	297	28	12.3	8.0	290	30	12.0	9.4	287
3.0 , , .	27	8.9	5.0	313	13	14.5	13.1	314	14	15.9	13.2	303	31	15.0	11.6	294	28	14.3	11.2	284	30	17.5	13.7	281
3.6 , , .	20	11.4	7.3	291	5	14.4	13.4	305	4	16.8	11.1	307	31	16.5	12.5	286	27	16.1	13.5	290	30	19.7	16.0	279
4.5 , , .	9	16.7	13.1	282	1	21.0	21.0	290					31	21.8	19.2	280	26	21.0	18.8	278	30	23.2	20.3	275
5.4 , , .	4	17.5	16.3	271									31	26.1	23.8	275	26	27.3	25.2	275	30	28.1	25.3	273
6.0 , , .	1	6.0	6.0	280									31	31.8	29.5	275	26	30.3	28.0	274	30	32.4	29.4	274
7.2 , , .													30	40.3	38.3	271	22	38.0	36.3	271	30	41.6	38.0	269
9.0 , , .													29	53.4	50.0	269	10	41.0	38.8	281	27	56.0	53.8	266

Station	NEW DELHI				POONA								PORT BLAIR											
	2330				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	2.8	1.3	313	31	0.3	0.2	212	31	2.1	1.3	054	31	0.6	0.1	011	31	4.4	4.2	065	31	6.7	6.1	060
0.15 a.g. . .	30	10.3	4.0	335	31	6.2	5.1	097	31	5.8	4.0	067	31	7.5	3.3	073	31	14.3	12.7	063	31	10.7	10.2	059
0.3 a.m.s.l. . .	30	8.5	3.3	333													31	14.2	12.7	064	31	11.0	10.4	059
0.6 , , .	30	11.0	3.9	315	31	2.0	0.4	145	31	4.6	3.3	065	31	3.3	0.6	177	31	13.9	12.9	072	31	11.2	10.4	064
0.9 , , .	30	11.1	5.6	290	31	10.1	8.9	107	31	6.3	4.5	075	31	9.2	5.9	080	31	14.9	13.2	082	31	11.3	10.0	070
1.5 , , .	30	11.7	8.2	283	31	10.7	9.5	124	31	5.8	3.6	097	31	10.1	8.3	105	31	13.5	10.9	087	27	11.0	9.7	083
2.1 , , .	29	13.2	9.7	300	31	8.1	5.0	131	31	6.3	3.4	129	31	8.8	6.9	122	31	8.9	5.2	096	26	8.1	6.9	089
3.0 , , .	25	13.2	11.0	291	31	10.8	2.7	284	29	10.7	10.5	119	31	11.0	2.4	160	31	10.5	1.9	190	20	7.1	3.6	090
3.6 , , .	15	14.6	12.4	279	30	12.3	3.5	299	27	12.4	0.6	193	28	11.9	3.6	253	31	11.3	2.1	243	16	8.7	2.6	113
4.5 , , .	2	15.5	15.4	277	16	12.7	5.5	275	27	14.1	4.9	263	20	15.8	6.6	275	31	12.4	3.2	095	14	8.0	3.9	103
5.4 , , .									25	17.4	10.6	266	12	16.0	10.7	264	30	12.8	2.6	115	13	9.8	6.5	108
6.0 , , .									24	20.2	15.4	262	10	15.8	13.6	271	30	12.0	3.8	107	11	9.7	6.6	118
7.2 , , .									21	23.6	21.8	258	10	24.6	21.6	275	30	15.3	3.5	146	10	12.3	7.9	113
9.0 , , .									14	28.7	26.4	265	2	27.0	23.5	290	24	17.2	9.1	234	7	13.9	7.0	120

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

December 1958 (Agrahayana 10—Pausa 10, 1880 Salma)

Station	PORT BLAIR								RAIPUR								RAXAUL								
	1730*				2330				0530				1730				2330				0530				
Time in I.S.T.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Ht. in Km.																									
Surface . . .	31	6.1	5.7	060	31	5.5	4.6	058	31	1.7	1.3	031	31	1.5	1.3	013	31	2.3	1.7	086	31	C	A	L	M
0.15 a.g. . .	31	14.2	13.3	058	31	7.6	7.0	057	31	6.8	4.2	049	31	4.3	3.5	019	31	6.0	3.8	084	22	4.3	0.8	002	
0.3 a.m.s.l. . .	31	14.2	13.3	058	31	7.8	7.1	057					31	4.4	3.2	017					22	4.6	1.6	301	
0.6 , , .	31	13.7	12.6	062	31	7.7	7.2	065	31	6.6	4.0	056	31	4.2	3.0	016	31	5.3	3.0	079	22	3.9	2.3	284	
0.9 , , .	31	12.7	11.4	068	27	7.1	6.3	073	31	4.8	2.3	042	31	4.8	3.0	356	31	4.6	1.8	067	22	4.0	1.7	250	
1.5 , , .	31	10.1	7.1	090	24	5.6	3.5	074	31	5.7	2.8	357	30	7.8	5.3	347	31	6.1	4.0	010	22	4.4	1.2	263	
2.1 , , .	31	8.5	3.7	104	17	4.9	1.2	089	31	8.0	5.9	342	30	10.3	7.4	328	31	8.1	5.9	358	22	6.2	3.1	300	
3.0 , , .	31	10.1	1.4	304	14	6.4	0.4	081	29	10.8	7.5	310	29	12.7	8.9	302	30	10.3	7.6	311	21	14.2	12.4	298	
3.6 , , .	31	11.3	0.9	279	12	5.7	3.0	100	21	12.1	7.8	311	20	15.0	10.4	309	23	14.0	11.0	296	20	19.8	18.4	297	
4.5 , , .	31	12.0	2.5	112	11	7.9	5.0	094	1	15.0	15.0	030	6	17.9	13.4	284	4	20.2	16.0	280	16	25.9	25.4	295	
5.4 , , .	30	13.2	4.3	104	9	8.3	5.5	110	1	14.0	14.0	020	1	6.0	6.0	360	1	19.0	19.0	340	2	24.0	23.9	288	
6.0 , , .	30	14.1	3.6	120	4	9.0	8.6	106									1	23.0	23.0	330					
7.2 , , .	30	15.3	3.2	180																					
9.0 , , .	23	15.6	7.4	226																					
Station	RAXAUL				SANTA CRUZ								TEZPUR								TEZPUR				
Time in I.S.T.	1730				0530*				1130				1730*				2330				0530				
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Surface . . .	31	1.6	1.5	265	31	3.4	3.2	075	31	5.2	4.0	081	30	7.9	6.3	315	31	3.2	2.9	019	31	1.2	0.9	062	
0.15 a.g. . .	30	8.4	7.3	268	31	11.4	8.9	055	30	6.9	5.8	081	30	12.6	10.1	310	31	9.6	8.4	004	27	7.8	6.8	079	
0.3 a.m.s.l. . .	30	8.1	7.2	264	31	10.9	8.0	070	31	7.7	6.2	096	30	9.0	7.0	325	31	9.6	8.6	358	27	8.1	6.1	086	
0.6 , , .	30	7.6	6.8	267	31	10.1	7.0	085	31	8.0	6.0	116	30	7.0	3.4	005	31	7.7	6.0	003	27	6.9	5.5	093	
0.9 , , .	30	7.3	5.7	284	31	8.6	5.5	105	31	8.1	5.5	124	30	6.5	2.4	090	31	6.6	3.7	033	25	5.5	3.9	089	
1.5 , , .	29	6.9	3.5	312	31	6.9	4.0	144	31	7.3	4.0	169	30	7.8	4.6	085	31	7.9	5.6	117	21	5.0	1.3	092	
2.1 , , .	28	8.6	5.6	297	31	8.6	5.3	168	30	8.1	3.8	166	30	9.4	4.4	117	31	9.9	7.5	137	19	4.7	1.1	142	
3.0 , , .	25	14.3	11.9	290	31	10.6	3.0	235	29	10.9	0.8	327	30	11.6	0.9	132	31	10.7	3.5	182	13	6.6	5.5	270	
3.6 , , .	15	17.7	16.8	288	31	14.2	5.6	275	29	12.3	2.0	333	29	13.1	3.3	237	27	11.8	3.8	235	7	15.4	9.9	285	
4.5 , , .	6	19.1	18.7	278	31	16.8	8.7	265	29	15.1	4.9	272	29	16.4	7.2	265	17	13.1	6.6	274	4	19.0	17.1	313	
5.4 , , .	2	34.0	34.0	281	31	18.4	11.5	265	26	17.3	8.9	270	29	18.7	12.9	265	7	18.4	15.7	279	2	19.0	19.0	296	
6.0 , , .					31	21.3	16.8	265	26	19.5	13.7	262	28	17.5	16.9	260	4	22.5	20.5	274	2	21.5	21.1	305	
7.2 , , .					31	25.6	23.5	255	25	23.9	20.6	262	27	27.7	26.0	257	1	24.0	24.0	305	1	42.0	42.0	295	
9.0 , , .					26	37.8	35.7	260	16	32.5	30.0	259	22	41.1	38.2	265	1	25.0	25.0	260					

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

December 1958 (Agrahayana 10—Pausa 10, 1880 Saka)

Station	TEZPUR								TIRUCHIRAPALLI								TRIVANDRUM								
Time in I.S.T.	1730				2330				0530				1730				2330				0530*				
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Surface . .	31	0.7	0.5	063	29	1.6	1.5	060	31	5.3	5.0	012	31	8.2	7.5	064	31	6.6	6.2	050	31	2.0	1.1	015	
0.15 a.g. . .	31	6.3	6.0	076	28	8.2	7.8	083	29	15.5	15.3	026	31	13.3	12.9	063	31	16.2	15.9	048	31	4.2	1.6	031	
0.3 a.m.s.l. . .	31	6.1	5.7	076	28	7.5	7.1	086	29	16.8	16.1	030	31	14.5	14.1	061	31	18.6	18.1	050	31	5.0	2.2	032	
0.6 . , .	31	4.5	3.3	074	28	4.5	3.4	090	29	16.5	16.2	044	31	16.5	16.5	058	31	20.8	20.5	053	31	6.0	2.8	062	
0.9 . , .	31	3.2	0.7	133	27	4.0	0.8	136	29	15.5	15.1	053	31	16.9	16.5	053	31	19.6	19.2	053	31	7.5	6.6	064	
1.5 . , .	30	5.8	3.1	218	26	4.4	1.4	251	29	12.8	11.8	053	30	15.3	14.8	017	30	13.9	12.9	047	31	6.6	3.6	064	
2.1 . , .	26	6.6	2.3	233	25	6.4	1.4	253	26	10.2	8.5	065	27	12.0	11.1	048	30	11.5	10.1	052	31	6.9	2.3	070	
3.0 . , .	22	9.8	1.3	281	18	13.7	7.1	272	19	9.9	7.8	083	24	8.9	6.6	075	26	10.5	7.6	089	31	8.8	4.7	079	
3.6 . , .	12	17.0	14.8	259	10	16.8	13.5	270	16	9.7	6.8	070	21	9.7	6.7	076	20	8.7	6.3	075	31	9.4	5.3	079	
4.5 . , .	9	23.0	22.2	270	4	15.3	11.6	274	13	9.8	6.8	077	14	8.4	6.3	089	16	8.3	3.7	112	31	9.7	7.4	088	
5.4 . , .					3	17.0	16.8	270	11	9.5	8.2	105	18	10.5	7.7	102	10	12.5	8.3	107	31	10.9	8.2	097	
6.0 . , .					3	18.3	18.1	279	8	11.5	7.1	119	17	11.3	8.5	101	8	11.7	8.3	082	31	11.6	6.3	105	
7.2 . , .									2	9.0	7.2	265	10	15.0	7.1	134	2	18.0	14.5	132	31	11.5	2.1	191	
9.0 . , .									2	10.0	6.1	262	4	13.3	13.0	151					25	16.1	8.9	194	
Station	TRIVANDRUM								UDAIPUR																
Time in I.S.T.	1130				1730*				2330				0530				1730				2330				
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	
Surface . .	31	3.2	1.2	328	31	3.7	3.0	249	31	2.1	0.5	310	31	0.4	0.3	301	31	1.2	0.3	234	31	0.2	0.2	300	
0.15 a.g. . .	31	4.4	0.6	260	31	5.5	4.5	266	31	5.0	2.0	260	31	4.2	2.0	002	31	4.9	1.1	138	31	5.0	2.1	031	
0.3 a.m.s.l. . .	31	4.1	0.7	230	31	6.3	5.0	258	31	5.0	2.3	254													
0.6 . , .	30	3.7	1.0	101	31	6.0	2.3	352	31	5.1	1.4	314													
0.9 . , .	26	4.5	3.5	068	31	8.9	8.0	043	31	7.4	4.6	051	31	5.4	0.4	128	31	5.9	1.1	184	31	6.4	2.0	080	
1.5 . , .	18	6.1	4.5	062	31	10.5	10.1	048	26	10.6	7.3	062	31	9.4	5.4	215	31	6.6	3.1	259	31	8.3	3.3	167	
2.1 . , .	12	6.0	4.4	064	31	8.3	7.0	050	22	8.0	4.5	063	31	12.1	7.8	237	31	8.5	5.7	255	31	9.2	4.5	207	
3.0 . , .	9	7.9	4.9	062	31	8.3	5.2	063	14	7.8	2.6	084	28	12.5	9.1	260	27	11.2	8.0	263	29	13.0	10.3	257	
3.6 . , .	7	9.6	4.6	065	31	9.2	5.8	065	11	9.4	2.8	055	22	11.7	9.6	275	26	14.4	11.8	271	27	13.3	10.4	274	
4.5 . , .	6	9.3	7.5	081	31	10.8	6.8	074	7	9.6	5.3	037	19	14.7	11.0	277	25	18.8	16.0	268	22	18.1	15.0	280	
5.4 . , .	3	16.3	15.1	094	31	10.9	7.0	102	2	4.0	3.9	071	6	25.5	22.7	285	25	24.6	20.4	276	11	19.8	18.0	278	
6.0 . , .	3	12.7	12.1	096	31	11.5	6.4	096	1	2.0	2.0	135	1	27.0	27.0	295	24	28.1	24.9	274	7	25.9	24.3	275	
7.2 . , .	2	15.0	13.3	089	31	12.9	2.0	117	1	7.0	7.0	240					20	32.6	31.2	271	2	27.0	27.0	280	
9.0 . , .	2	10.5	9.7	103	31	16.7	8.8	180									13	44.1	42.2	272					

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

December 1958 (Agrahayana 10—Pausa 10, 1880 Saka)

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9.0 km. above mean sea level

December 1958 (Agrahayana 10 — Pausa 10 1880 Saka)

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9.0 km. above mean sea level.

December, 1958 (Agrahayana 10 1880—Pausa 10, 1880 Saka)

Ht. in Km.	n	V	v	D	Ht. in Km.	n	V	v	D	
1730 hrs.*										
10.5	17	26.1	18.7	220	10.5				UDAIPUR	
12.0	12	35.3	26.8	223	12.0	6	52.3	51.3	1730 hrs.	
14.1	8	53.0	33.7	222	12.0	4	67.0	65.1	255	
SANTA CRUZ										
	0530 hrs.*				10.5	2	37.0	36.0	218	
10.5	21	44.0	42.7	252	12.0	1	21.0	21.0	255	
12.0	12	48.2	46.0	247	14.1	1	23.0	23.0	235	
14.1	3	67.3	62.0	260	1130 hrs.					
10.5	9	40.6	39.6	255	10.5				VERAVAL	
12.0	5	55.8	55.2	257	12.0	25	57.0	55.0	260	
14.1	2	80.5	79.0	238	14.1	19	58.7	53.7	258	
16.2	1	91.0	91.0	245	14.1	8	57.4	55.0	268	
	1730 hrs.*				16.2	3	26.0	22.6	276	
10.5	15	45.5	43.1	245					1130 hrs.	
12.0	7	58.0	54.0	243	10.5	6	41.0	39.9	265	
14.1	2	39.5	39.0	245	12.0	4	48.5	48.4	261	
16.2	1	49.0	49.0	240	14.1	3	56.0	55.2	259	
	1730 hrs.*					1730 hrs.*				
TIRUCHIRAPALLI										
	0530 hrs.				10.5	26	49.8	47.5	265	
10.5	1	24.0	24.0	310	12.0	24	58.7	55.2	260	
	1730 hrs.				14.1	15	47.8	43.3	258	
10.5	2	22.5	21.9	146	16.2	6	29.2	26.3	270	
12.0	1	15.0	15.0	190	18.0	3	17.3	8.5	265	
TRIVANDRUM										
	0530 hrs.*									
10.5	24	23.6	17.1	180						
12.0	18	24.2	16.4	216						
14.1	11	25.6	23.3	244						
16.2	6	25.5	16.3	246						
18.0	1	29.0	29.0	235						
	1130 hrs.									
10.5	1	13.0	13.0	155						
12.0	1	15.0	15.0	185						
	1730 hrs.*									
10.5	30	22.8	14.8	184						
12.0	28	25.8	16.4	199						
14.1	18	26.2	21.3	240						
16.2	11	16.3	4.1	215						
18.0	3	17.0	16.2	136						

RADIOSONDE DATA
December 1958 (Agrahayana 10—Pausa, 10, 1880 Saka)

During the month, observations of upper air temperature, pressure and humidity were made at 13 stations in India as given in the list below. For a detailed description of the instruments used, a reference may be made to the I. M. D. Scientific Notes Nos. 112 and 113 (Volume IX).

LIST OF RADIOSONDE STATIONS IN INDIA

Serial No.	Name of station	Type of instrument used	Date of starting	Hours of routine observations in G.M.T. during the month	Remarks
1	Allahabad	Clock type .	1st October, 1944 .	. 00 and 12	GMT
2	Amritsar	Clock type .	21st June, 1957 .	. 00 and 12	
3	Bombay	Clock type .	7th September, 1954 .	. 00 and 12	
4	Calcutta	Clock type .	13th December, 1946 .	. 00 and 12	. Fan type used from 13th December, 1946 to 30th November, 1947.
5	Gauhati	Clock type .	22nd July, 1955 .	. 00 and 12	
6	Jodhpur	Clock type .	17th April, 1946 .	. 00 and 12	
7	Madras	Fan type .	29th June, 1946 .	. 00 and 12	
8	Nagpur	Fan type .	1st October, 1946 .	. 00 and 12	
9	New Delhi	Clock type .	3rd December, 1943 .	. 00 and 12	
10	Port Blair	Fan type .	4th December, 1949 .	. 00 and 12	
11	Trivandrum	Fan type .	1st July, 1947 .	. 00 and 12	
12	Veraval	Fan type .	3rd October, 1944 .	. 00 and 12	
13	Visakhapatnam	Fan type .	8th December, 1946 .	. 00 and 12	

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 00 Hours G. M. T.

December 1958 (Agrahayana 10—Pausa 10, 1880 Saka)

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 00 Hours G. M. T.

December 1958 (Agrahayana 10—Pausa 10, 1880 Saka)

Standard Pressure Surface mbs.	MADRAS Surf Pr. (1012 mb.)							NAGPUR (981 mb.)							NEW DELHI (993 mb.)						
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A						
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			
Surface	31	015	296.5	299	294	294.3	31	311	286.6	290	283	283.8	31	210	283.6	288	278	282.1			
1000	31	120	..	..	..	..	31	145	..	..	..	..	31	148	..	..	..	..
900	31	1033	290.5	293	288	287.2	31	1043	290.1	292	288	279.2	31	1037	287.1	290	281	274.8			
850	31	1521	288.0	290	286	282.1	31	1527	286.9	291	283	275.4	31	1519	285.5	290	279	270.8			
800	31	2034	285.8	291	282	277.9	31	2037	284.8	292	280	267.0	31	2026	283.4	290	276	269.0			
700	31	3148	281.5	287	277	267.0	31	3149	281.1	286	274	253.9	31	3127	278.1	287	272	260.3			
600	31	4412	275.9	281	273	255.7	31	4405	273.7	278	269	243.5	31	4370	271.0	280	264	255.7			
500	31	5863	266.1	270	261	..	31	5845	264.5	270	259	..	31	5794	261.4	270	256	..			
400	31	7568	254.7	260	251	..	30	7531	252.2	258	247	..	30	7469	249.3	257	243	..			
300	28	9651	238.3	247	230	..	29	9599	236.9	245	228	..	29	9518	235.3	241	227	..			
250	26	10907	229.0	235	223	..	29	10842	227.3	236	220	..	28	10760	226.5	232	218	..			
200	26	12373	218.3	225	212	..	29	12301	217.3	224	211	..	27	12216	218.3	224	213	..			
175	22	13222	213.0	221	207	..	29	13144	212.3	220	204	..	26	13071	214.7	221	207	..			
150	22	14175	207.1	216	200	..	29	14089	208.0	217	200	..	25	14036	211.9	217	205	..			
125	19	15263	201.7	211	195	..	28	15202	205.0	211	198	..	22	15159	210.0	218	204	..			
100	15	16611	198.5	205	189	..	25	16535	203.1	208	198	..	19	16540	207.7	215	203	..			
80	10	17951	196.1	202	186	..	14	17794	203.5	208	194	..	14	17925	207.4	212	202	..			
	PORT BLAIR (1004 mb.)							TRIVANDRUM (1004 mb.)							VERAVAL (1014 mb.)						
Surface	30	079	296.1	299	292	293.5	31	064	297.6	299	297	293.8	31	008	292.6	297	288	286.5			
1000	30	112	..	..	..	..	31	095	..	..	..	..	31	127	..	..	..	..
900	30	1028	291.0	293	287	289.3	31	1014	292.8	295	289	286.4	31	1038	290.9	294	286	280.1			
850	30	1518	289.4	293	286	285.3	31	1505	290.4	294	287	281.5	31	1525	288.1	292	283	276.0			
800	30	2033	286.9	291	283	281.3	31	2022	287.8	292	284	276.9	31	2037	285.1	289	281	270.3			
700	30	3150	281.8	286	277	274.0	31	3141	282.5	287	279	267.8	31	3146	279.5	284	275	262.8			
600	30	4412	275.8	281	269	264.0	31	4402	274.9	281	271	260.4	31	4396	272.5	277	263	257.0			
500	30	5865	267.4	274	263	..	31	5850	266.4	275	263	..	31	5828	262.9	267	256	..			
400	30	7580	256.3	264	251	..	31	7557	255.8	268	251	..	31	7509	250.8	256	244	..			
300	26	9680	241.0	247	232	..	29	9642	238.8	248	231	..	30	9563	235.6	242	227	..			
250	20	10950	230.8	239	220	..	29	10893	228.5	236	219	..	29	10798	226.8	235	221	..			
200	17	12413	219.8	232	209	..	28	12346	216.5	226	207	..	26	12241	216.3	227	206	..			
175	15	13235	213.8	224	202	..	25	13211	210.4	217	200	..	23	13072	211.0	223	199	..			
150	13	14207	208.1	217	194	..	25	14162	204.2	215	190	..	19	14041	207.6	215	200	..			
125	8	15310	204.6	216	197	..	19	15218	199.7	209	191	..	15	15194	205.1	214	200	..			
100	5	16589	197.2	205	190	..	18	16448	194.0	201	185	..	10	16480	201.3	209	194	..			
80	..	..	..	..	..	..	10	17932	200.8	212	188	..	5	17694	202.2	205	195	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 00 Hours G. M. T.

December 1958 (Agrahayana 10—Pausa 10, 1880 Saka)

Standard Pressure Surface mbs.	VISAKHAPATNAM Surf. Pr. (1010 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	31	048	296.1	298	292	290.5
1000	31	136	..	..	..	..
900	31	1047	290.0	292	287	283.7
850	31	1533	287.0	289	284	280.3
800	31	2043	285.1	289	280	274.2
700	31	3154	281.4	284	278	263.6
600	31	4412	274.9	280	270	255.7
500	31	5858	265.9	269	260	..
400	31	7562	254.5	259	250	..
300	27	9643	238.9	245	232	..
250	23	10898	229.8	237	222	..
200	17	12370	218.8	229	213	..
175	14	13243	215.5	224	209	..
150	12	14185	208.5	218	204	..
125	10	15244	202.4	210	196	..
100						
80						

RADIOSONDE DATA

TABLE VI.—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Agents at 1200 Hours G. M. T.

December 1952 (Agrahayana to—Pausa 10, 1820 Saka)

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 12 Hours G. M. T.

December 1958 (Agrahayana 10—Pausa 10, 1880 Saka)

Standard Pressure Surface mbs.	MADRAS Surf. Pr. (1011 mb.)						NAGPUR (979 mb.)						NEW DELHI (992 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point
Surface	31	15	299.7	301	297	294.6	31	311	298.1	300	296	284.0	31	210	291.8	297	284	285.5
1000	31	114	..	..	..	..	31	123	..	..	..	..	30	138	..	..	..	..
900	31	1032	291.3	294	289	287.5	31	1039	291.4	295	290	279.2	30	1039	289.1	294	283	276.2
850	31	1522	288.8	291	287	281.6	31	1527	287.8	291	283	276.1	30	1524	287.4	293	281	271.0
800	31	2037	286.7	290	284	276.6	31	2038	285.5	290	281	267.0	30	2034	285.4	290	279	267.3
700	31	3155	282.4	288	279	269.4	31	3150	281.5	286	277	257.2	30	3142	279.6	287	272	259.2
600	30	4423	276.3	281	273	260.1	31	4409	274.8	281	271	244.7	30	4390	271.6	277	266	246.9
500	29	5880	267.3	274	263	..	31	5851	264.9	269	261	..	30	5821	262.7	269	257	..
400	29	7594	256.3	265	250	..	31	7542	252.7	261	248	..	30	7503	251.0	256	248	..
300	25	9702	241.4	247	235	..	30	9612	237.4	245	230	..	26	9559	237.3	243	233	..
250	24	10964	231.8	236	223	..	28	10856	228.4	239	221	..	24	10819	229.3	235	224	..
200	22	12443	220.1	225	211	..	28	12318	218.5	229	207	..	23	12276	220.1	226	213	..
175	20	13291	214.4	219	205	..	24	13166	212.6	221	201	..	21	13137	216.6	222	206	..
150	18	14267	208.6	215	201	..	23	14108	208.9	218	199	..	17	14097	213.4	219	206	..
125	13	15383	204.9	209	200	..	21	15217	205.0	212	193	..	11	15243	211.6	217	205	..
100	10	16701	201.4	211	189	..	17	16536	202.9	213	196	..	5	16656	208.2	211	202	..
80							10	17897	203.3	207	198	..						

	PORT BLAIR (1003 mb.)						TRIVANDRUM (1003 mb.)						VERAVAL (1012 mb.)					
Surface	31	79	298.5	300	297	294.3	31	64	302.0	303	300	294.5	31	8	299.8	302	297	292.3
1000	31	102	..	..	..	..	31	88	..	..	..	..	31	115	..	..	..	..
900	31	1020	291.5	295	289	289.6	31	1013	294.7	297	293	287.9	31	1033	292.8	297	288	281.3
850	31	1510	289.4	292	287	285.8	31	1507	291.2	294	289	284.5	31	1523	289.4	294	282	277.2
800	31	2026	287.6	290	284	280.4	31	2026	288.0	292	285	280.5	31	2037	286.4	293	278	271.9
700	31	3146	282.8	287	278	272.7	31	3147	283.0	287	278	270.2	31	3150	281.2	289	274	260.4
600	31	4413	276.5	282	272	264.6	31	4412	276.2	280	272	262.2	31	4406	273.7	277	270	254.6
500	31	5868	267.3	272	256	..	31	5866	267.4	271	263	..	31	5847	264.6	268	258	..
400	31	7580	255.3	261	251	..	31	7581	256.7	261	253	..	31	7539	252.6	259	248	..
300	27	9663	239.2	246	231	..	31	9681	241.1	247	235	..	31	9605	237.2	244	232	..
250	16	10941	230.7	234	223	..	30	10942	231.0	237	223	..	30	10860	228.0	234	221	..
200	11	12421	220.9	224	218	..	30	12417	219.4	225	211	..	28	12338	219.3	225	210	..
175	10	13280	214.8	219	210	..	28	13253	213.7	221	204	..	26	13186	214.3	222	205	..
150	10	14326	208.8	213	204	..	28	14217	207.8	217	197	..	24	14145	208.9	219	202	..
125	5	15347	202.2	205	197	..	27	15314	202.9	214	193	..	20	15264	205.1	216	198	..
100							25	16617	198.6	207	188	..	15	16580	201.7	213	194	..
80							16	17930	198.9	208	193	..	12	17907	202.2	216	192	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 12 Hours G. M. T.

December 1958 (Agrahayana 10—Panisa 10, 1880 Saka)

Standard Pressure Surface mbs.	VISAKHAPATNAM Surf. Pr.(1009 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	31	48	299.5	301	297	291.3
1000	31	125	..	..	..	..
900	31	1042	291.6	295	288	284.3
850	31	1532	289.0	292	286	279.5
800	31	2046	286.3	289	283	274.5
700	31	3161	281.7	286	278	264.0
600	30	4423	275.6	279	272	256.6
500	30	5876	266.9	271	264	..
400	29	7586	255.1	259	251	..
300	23	9671	239.8	244	232	..
250	21	10923	229.3	235	223	..
200	19	12387	218.7	226	210	..
175	17	13218	213.2	221	204	..
150	14	14188	207.9	217	202	..
125	10	15277	202.9	206	200	..
100	7	16601	200.9	206	197	..
80						

15/46-5

NOTE.—Number of observations refer to those of dynamic height.

Means are not worked out for temperature and dew point for the 1000 mb. surface and for dew point for standard pressure surfaces with temperature less than 273°A.

Means are not worked out for less than five observations at standard pressure surfaces.

M.O. 6. 1/54

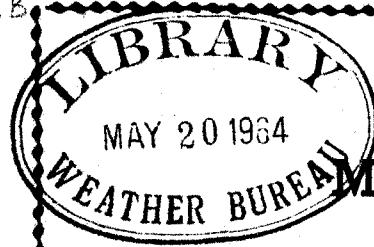
I 391

Annual

pt. B

D.G.O. I.M.D.

23



GOVERNMENT OF INDIA

METEOROLOGICAL DEPARTMENT

INDIA WEATHER REVIEW, 1958

ANNUAL SUMMARY

PART B

SNOWFALL

CONTENTS

	Page
Winter Period	B1
Hot Weather Period	B4
Southwest Monsoon Period	B5
Post Monsoon Period	B7
Summary	B9

Published by the Authority of the Government of India

Under the Direction of

P. R. Krishna Rao, B. Sc., F.N.I.

Director General of Observatories, New Delhi.

PRINTED IN INDIA BY THE MANAGER, GOVT. OF INDIA PRESS, NASIK
PUBLISHED BY THE MANAGER OF PUBLICATIONS DELHI—1964

Price : (Inland) Rs. 2.15 (Foreign) 5s. 1d. or 78 cents.

GOVERNMENT OF INDIA
METEOROLOGICAL DEPARTMENT

INDIA WEATHER REVIEW, 1958

ANNUAL SUMMARY

PART B

SNOWFALL

CONTENTS

	Page		Page
Winter Period	B1	Post Monsoon Period	B7
Hot Weather Period	B4	Summary	B9
Southwest Monsoon Period	B5		

Published by the Authority of the Government of India

Under the Direction of

P. R. Krishna Rao, B. Sc., F.N.I.

Director General of Observatories, New Delhi.

INDIA WEATHER REVIEW, 1958

ANNUAL SUMMARY

PART B

SNOWFALL

SYNOPSIS

This volume contains a summary of the reports of snowfall during the year in the mountain regions to the north of India based on (a) records of snowfall observations made at observatories and (b) reports collected by local officers from the local residents, headmen of villages or from travellers who have passed through the region.

This part contains a summary of the reports of snowfalls in the mountain ranges to the north of India based on (a) records of snowfall observations made at the observatories and (b) reports collected by local officers from the local residents, headmen of villages or from travellers who passed through the region and are then transmitted to this office.

The amount of snowfall is usually measured by finding the depth of undisturbed snow lying on the ground. The measurements are given in centimetres or tenths of metres. At places provided with raingauges the snow collected in the gauge is melted and measured as rain. This is indicated in the text and the measurements are given in tenths of centimetres. The heights of well known peaks are reported in nearest metres wherever available while the heights of mountain ranges etc. are reported in tenths of metres.

Cold Weather Period, January and February

I—JAMMU AND KASHMIR

SOUTH ANANTNAG DISTRICT

Srinagar.—Five light to moderate snowfalls occurred in the month of January. The heaviest fall of 2.3 cm. occurred on 23rd, the total precipitation amounting to 6.9 cm. February experienced one snowfall of 1.0 cm. on 2nd. All the peaks and passes in the region were covered with snow. In both the months snowfall was below normal.

Patni Top (Batote).—It snowed on three days in January on 22nd, 24th and 27th, the total precipitation amounting to 15 cm. and the snowline descended to 1250 metres a.s.l. February witnessed snowfall on two days on 4th and 5th, the total fall amounting to 38 cm. The snowline descended to 1370 metres a.s.l. The peaks of Sansar (ht. 2286 m.), Ensin Dhar (ht. 2704 m.), Kud (ht. 2487 m.) and Eastern Pirpanjal (ht. 4109 m.) were covered with snow.

LADAKH DISTRICT

Sonemarg.—Light snowfalls occurred on five days in January, first fall was on 2nd and three days in February

in the first week. The depth of snow accumulation of Zojilla pass was 2.1 m. in January and 2.7 m. in February. At the station proper the snow depth was 1.8 m. in February. The snowfall was below normal both in January and February.

II—PUNJAB (I)

CHAMBA DISTRICT

CHURAH

Tissa.—In January there were five snowfalls, the total depth amounting to 46 cm. February experienced four snowfalls, the total depth amounting to 25 cm. In both the months the depth of snow accumulations on the surrounding peaks varied from 3.7 m. to 4.6 m. The snowline descended to a height of 1830 m. in January and 1680 m. in February. Snowfall was below normal during the period.

Bhandal.—Snow fell once in January amounting to 13 cm. No snow fell in February. In both the months the snowline descended to a height of 1680 m. The depth of snow accumulations on the Gamguhal pass was 3.1 m. at the end of January and 3.7 m. at the end of February. The snow accumulation on well known passes of the district was as follows :

Name	Ht. in metres	Accumulation in metres at end of	
		January	February
Sach Pass	4420	4.6	4.6
Padhri Pass. . . .	3658	2.4	3.1
Basodhan Pass . . .	2743	0.6	0.9

The snowfall was much below normal during the period.

Tikri.—In January snowfall occurred twice up to the height of 1980 m. At high altitudes above 3050 m. snowfall was common on every cloudy day. The depth of snow accumulation varied from 15 to 305 cm. at higher peaks in the region. The depths of snow accumulation at the following passes and peaks were as under at the end of January.

Name of Pass or Peak	Depth of snow accumulations in metres
Drati Pass	3·1
Chaurasi Peak	2·7
Mehlu Pass	1·8

Snowfall was below normal for the month. No report was received for February.

Chhatri.—In January snowfall occurred once amounting to 10 cm. The snowline descended to 1710 m. No snow fell in February.

BHATTIYAT

Kalatop (Dalhousi Forest Range).—Snow fell on eleven days in January and four days in February, the total precipitation in these months amounting to 79 cm. and 5 cm. respectively. The snowline descended to 1520 m. in January and 1830 m. in February.

Brahmour.—It snowed on seven days in January and three days in February, the total falls in these months being 104 cm. and less than 1 cm. respectively. The snowline descended to 1520 m. in February.

MAHASU DISTRICT

Pandrabis.—Snowfall occurred on six days in January, the first fall being on 15th, the total precipitation amounting to 77 cm. In February snowfall occurred on the high peaks above 2440 m. The snowline descended to 1830 m. in January and 2440 m. in February. The depth of snow accumulation was 2.1 to 2.4 m. in January on Sirikhanda peak and Spiti pass. It was 2.7 m. on Sirikhanda peak in February. Snowfall was below normal for both the months.

Kilba-Kailash.—The following table gives the number of days of snowfall and corresponding amounts during each month.

Name of Station	No. of days of snowfall		Total snowfall in cm.	
	January	February	January	February
Kilba . .	1	0	10	0
Sangla . .	7	5	64	13
Purbani . .	6	0	43	0

Chini (Kalpar).—Snow fell on seven days in January and one day in February, the total precipitation amounting to 41 cm. and 3 cm. respectively. In January snowfall was below normal.

Rampur.—In January the snowline descended to an elevation of 1680 m. The depth of snow accumulations on the following peaks of the region were as under :—

Name of peak	Snow accumulation in cm. at end of	
	January	February
Daran Ghati	53	15
Hatu	76	46

Kotkhai.—Snow fell on six days in January and on 2 days in February on following peaks—Naira (ht. 2286 m.), Joshla (ht. 2438 m.), Tahoo (ht. 2438 m.) and Chambi Kupar (ht. 2286 m.). The snowfall was below normal during the period.

Suni.—It snowed on five days in January and four days in February and the total depth on the Shali peak amounted to 56 cm. and 33 cm. respectively. The snowline descended to 2130 m. in January and 2290 m. in February. The accumulation of snow on Shali peak (ht. 2743 m.) was 20 cm. at the end of January and 13 cm. at the end of February. The snowfall was much below normal for both the months.

Arki.—Only snowstorms occurred on five days in January and four days in February.

Solan.—No snow fell both in January and February. The snowfall for the period was below normal.

Jubbal.—Snow fell on 3 days in January and 2 days in February. The depth of snowfall on some important places was as under :

Name of Station	Ht. in metres a. s. l.	Depth. of snowfall in cm.	
		January	February
Sarain	2209	28	33
Mandha Ghati . . .	2499	18	18
Deya	2225	335	0
Bogh	2134	41	30
Tharaoch	2081	13	20
Talra	3223	122	91
Chopal	2438	4	30
Chur Peak	3658	122	106
Barach Pass . . .	3200	..	38
Chhuchpur Peak . . .	3353	..	71
Ari Pass	2743	..	25
Manalag	2530	..	4

The accumulation of snow at the end of January and February on some peaks and passes was as given below:

Name of Pass or Peak	Ht. in metres a. s. l.	Accumulation of snow in cm.	
		January	February
Talra	3223	122	91
Chur Peak	3658	122	106
Khanti Thach	2591	76	..
Mandha Ghati	2499	46	46
Chopal	2438	41	30
Barach Pass	3200	..	38
Chhuchpur Peak	3353	..	71

The snowfall was below normal during the period

MANDI DISTRICT

Mandi Forest Division.—In January the station experienced snowfall on two days while in February it occurred on high peaks. The accumulation of snow on some peaks was as under :

Name of Peak	Ht. in metres a. s. l.	Accumulation of snow in cm.	
		January	February
Kandhi	2438	58	58
Bhubhu	2743	106	53
Shikari	3353	61	135
Tungasi	2743	30	30
Raigarh	2896	61	61
Kashian	2438	61	61

The snowfall was below normal for both the months.

Suket Forest Division.—No snow fell during the period at any of the raingauge stations Suket, Karsoj or Jhungi. The accumulations of snow on higher peaks of the region were 152 cm. in January and 91 cm. in February. Snowfall was much below normal for the period.

SIRMUR DISTRICT

Sirmur.—There was snowfall one each in January and February. The snowline descended to a height of 1830 m. The depth of snow on high peaks of the region was 30 cm. The snowfall was below normal for both the months.

Pachhad.—January witnessed two snowfalls, the depth of snow varying from 10 cm. to 20 cm. The snowline descended to a height of 1830 m. The depth of snow on some important peaks was as given below :

Name of peak	Ht. in metres a. s. l.	Depth. of snowfall in cm. as on	
		14 to 16th January	27-28th January
Chura Dhar	2040	10—15	13—20
Topi Dhar	2130	..	..
Galog Dhar	2320	..	13—25

Name of peak	Ht. in metres a. s. l.	Depth. of snowfall in cm. as on	
		14 to 17 January	27 to 28 January
Khera Dhar	1830—2740	10—20	13—25
Bathan Dhar	1830—2740	10—20	"
Sain Dhar	1520—1830	3—5	3—5
Banati Dhar	2130—2740	10—20	13—25
Serjagar	1830—2130	10—15	13—20
Sur Dhar . . . .	..	..	"
Habban Dhar . . . .	..	..	"
Thanda Dhar . . . .	..	..	"
Palu Dhar . . . .	..	..	"

The snowfall was below normal during the month of January.

No report was received for February.

III—UTTAR PRADESH

TEHRI GARHWAL DISTRICT

Snow fell on seven days in January on the well known peaks of Surkanda and Nagtiba in Tehri Tehsil, Kedarkantha, Badrapooch and Jamonotri in Rawain Tehsil and Panwali and Manak Nath in Pratapnagar Tehsil. The snowline descended to a height of 1520 metres a.m.s.l. The depth of snow varied from 13 cm. to 23 cm. In February light snow occurred on three days on the high peaks of Panwali, Manak-nath, Khet and Sem. The snowfall was below normal in January.

GARHWAL DISTRICT

There had been ten snowfalls in January and seven in February. The snowline descended to a height of 1370 m. in January and 1680 m. in February. The depth of snow varied from 3 cm. to 300 cm. in January and from 0.5 cm. to 5 cm. in February on the higher peaks in the region. The snowfall was normal in the period.

ALMORA DISTRICT

The total amount of snowfall at some places in the region was as under :

Name of place	Total snowfall in cm.	
	January	February
Malla Danpur	213—305	213
Malla Darma	305	152
Gorifat	183—305	183
Malla Johar	122	61
Byans	30	..
Chaudaus	30	..

The depth of snowfall at some important places in the region was as given below :

Name of Peak or Valley	Depth. of snow in metres	
	January	February
Kautela Peak	2·1	0·9
Kafini Peak	2·1	1·2
Kafini Valley	2·7	..
Bankatia Peak	3·7	1·8
Bankatia Valley	4·3	2·1
Pindar Peak	3·7	..
Pindar Valley	4·3	..
Nanda Khat Peak	3·7	1·8
Nanda Khat Valley	4·3	2·1
Sundardhunga Peak	3·4	1·5
Sundardhunga Valley	4·0	1·8
Nubbedhura Peak	3·0	..
Panchehuli	3·0	0·9
Golpa	3·0	..
Rawatdhura . . . . .	..	0·6
Hansling . . . . .	..	0·3

NAINITAL DISTRICT

Mukteswar.—Snowfall of light to moderate intensity occurred on two days in January, the total depth of snow being 15 cm. February witnessed one light snowfall amounting to 4 cm. The snowfall extended to the surrounding peaks and valleys of Nainital, Ramgarh, Gagarh, etc. Snowfall was below normal for both the months.

ASSAM

United Khasi—Jaintia Hills, Shillong.—No snow fell during the period.

Hot Weather Period March to May

I—JAMMU AND KASHMIR

SOUTH ANANTNAG DISTRICT

Srinagar.—No snow fell at the station proper during the period. Snow persisted up to the height of 3050 m. in March and 3960 m. in April and at still higher peaks in May. Snowfall was slightly below normal in this period.

LADAKH DISTRICT

Sonemarg.—Snow fell on eleven days in March and five days in April. The depth of snowfall at the station was 1·8 m. in March while during April no snow was collected at the station but on the surrounding hills about 1 m. of snow was accumulated by the end of the month. Zojilla pass was blocked due to snow avalanches. Snowfall was below normal both in March and April.

No report for May was received.

II—PUNJAB (I)

CHAMBA DISTRICT

Kilar (Pangi Range).—No reports were received for March and April. In May it snowed on two days the total snowfall amounting to 20 cm. The snowline descended

to a height 2440 m. At Sach Pass (Ht. 4413 m.) the accumulation of snow was 12.2 m. The snowfall was above normal for this month.

CHURAH

Tissa.—In March there were two snowfalls the total precipitation amounting to 13 cm. April also experienced two snowfalls. The snowline descended to a height of 2900 m. in March and 3050 m. in April. The accumulations of snow in some passes of the region were as under :

Name of Pass	Accumulation of snow in metres	
	March	April
Sach	3·1 to 3·7	2·4 to 3·1
Chehni	3·1 to 4·0	3·1 to 3·3

Snowfall was below normal both in March and April.

No report for May was received.

Bhandal.—Snow storms occurred on two days in March and one day in May, the total precipitations amounting to 13 cm. and 20 cm. respectively. No snowfall occurred in April. The snowline descended to a height of 1680 m. in March and 3050 m. in May. At Padhri pass the accumulation of snow was 152 cm. in March and 30 cm. in April. The snowfall was below normal for the period.

Tikri.—Snowfall occurred twice in March and April and once in May. The snowline descended to a height of 2130 m. in March, 3350 m. in April and 3960 m. in May. The snow accumulation was conspicuous above 2740 m. in March, 3660 m. in April and 3980 m. in May. It snowed on all cloudy days above 3350 m. in March and 3960 m. in April. The depth of snow on nearby high peaks was between 8 to 152 cm. in March, 8 to 91 cm. in April and 8 to 46 cm. in May. The accumulations of snow on some important passes and peaks were as under :

Name of Pass or Peak	Accumulation of snow in cm.		
	March	April	May
Drati Pass	152	61	46
Chaurasi Peak	122	30	23
Mehlu Pass	91	15	15

Snowfall was below normal for the period.

Chamba.—In March slight snowfall occurred on four days at each of the stations Kalatop (Ht. 2414 m.) and Bramour Ht. 2155 m.). The snowline descended to a height of 2130 m. The depths of snowfall on some well known passes of the region were as under :

Name of Pass	Ht. in metres a. s. l.	Depth of snow-fall in cm.	
		March	
Basodhan	2743		15
Padhri	3658		91
Sach	4420		122

No snow fell in April and May except at Pangi where slight snowfall was reported in April. In April and May all the snow melted away except at Sach Pass, where it was about 15 cm. The snowfall was below normal during the period.

MAHASU DISTRICT

Pandrabis.—In March the station had snowfall on three days, the total precipitation amounting to 38 cm.

The snowline descended to a height 1520 m. The accumulation of snow on Sirikhand peak was 3.0 m. The snowfall was below normal for the month.

No report was received for April and May.

Kilba—Kailash.—In March the amounts of snowfall recorded at Sangla, Kilba and Purbani were 33, 6 and 39 cm. for 3 days, 1 day and 4 days in the month respectively. No snow fell in April and May.

Chini (Kalpar).—Snow fell on three days in March and on one day in April, the total snowfalls amounting to 34 cm. and 5 cm. respectively. No snow fell in May. The snowfall was below normal for the period.

Rampur.—The snowline descended to an elevation of 2130 m. in March. The depths of snow on Daran Ghati and Hatu Peaks were between 30 to 46 cm. in March and remained the same at the end of the period. No snow fell in April or May.

Kotkhai.—March experienced two snowfalls, the total precipitation amounting to 15 cm. on the peaks of Naira (ht. 2286 m.), Joshla (ht. 2438 m.), Tahoo (ht. 2438 m.) and Chambi Kupar (ht. 2286 m.). No snow fell in April. In March snowfall was below normal.

No report was received for May.

Suni.—In March snowfall occurred on one day on the high peaks of Shali, the precipitation amounting to 20 cm. The snowline descended to a height 1830 m. No snow fell in April and May. The snowfall was below normal for the period.

Arki.—No snow fell in March. No reports were received for April and May.

MANDI DISTRICT

Mandi Forest Division.—Snowstorms occurred on two days in March, the total snowfall amounting to 15 cm. The depth of snowfall on Shikari (ht. 3353 m.), Tungasi (ht. 2743 m.) and Raigarh (ht. 2896 m.) were 106, 30 and 91 cm. respectively. No snow fell in April and May. The snowfall was below normal for the period.

Suket Forest Division.—At Jhungi snow fell on one day in March and 3 days in May, amounting to 0.3 cm. and 2.4 cm. respectively. In May snow fell at Karsoj and Sundarnagar on two days and four days respectively the amounts being 2.4 cm. and 2.2 cm. No snow fell in April. The snowfall was much below normal.

SIRMUR DISTRICT

Sirmur.—No snow fell during the period and it was below normal.

III—UTTAR PRADESH

TEHRI GARHWAL DISTRICT

No snow fell during the period.

GARHWAL DISTRICT

There were 5 snowfalls in March, 11 in April and 3 in May. The total depths of snow were from 1 to 46 cm. in March, 5 cm. in April and 1 to 152 cm. in May at heights above 1370 m. The snowfall was below normal during the period.

ALMORA DISTRICT

The total snowfall at some places in the region was as under :

Name of Station	Total snowfall in cm.		
	March	April	May
Malla Danpur . . .	53	8 to 46	8
Malla Darma . . .	122	61	..
Malla Johar . . .	8	15	8
Byans . . .	32 to 46	..	..
Gorifat . . .	91	..	..
Chaudaus . . .	..	0	..

The total depths of snowfall on some peaks and valleys were as given below :

Name of Peak or Valley	Depth of snowfall in cm.		
	March	April	May
Kautela Peak . . .	8	8	15
Kafini Peak . . .	15	15	23
Bankatia Peak . . .	30	30	61
Bankatia Valley . . .	38	38	61
Nanda Khat Peak . . .	46	38	61
Nanda Khat Valley . . .	53	46	..
Sundardhunga Peak . . .	23	23	46
Sundardhunga Valley . . .	30	30	38
Lipuleg Valley . . .	61	..	..
Limpialeg Valley . . .	91	..	..
Panchchuli . . .	..	15	8
Hansling . . .	..	15	8

The snowfall during the period was below normal.

NAINITAL DISTRICT

Mukteswar.—Light snow fell on one day in March, the depth amounting to 13 cm. The snowfall extended to the high peaks of Nainital, Ramagarh, Gagarh etc. The snowfall in this month was below normal.

No reports were received for April and May.

*Southwest Monsoon Period—June to September
June—July*

I—JAMMU AND KASHMIR

NORTH BARAMULLAH DISTRICT

Gulmarg.—In June 2 light snowfalls were observed on Handibal and Afarwat mountains, the total precipitation amounting to 6 cm. No snow fell in July. The snowfall was above normal in June.

SOUTH ANANTNAG DISTRICT

Srinagar.—As usual no snow was experienced in June and July.

II—PUNJAB (I)

CHAMBA DISTRICT

Kilar (Pangi Range).—No snow fell in the period as usual. The accumulation of snow on Sach Pass (ht. 4413 m.) was 61 cm. at the end of June which melted away by the end of July.

CHURAH

Bhandal.—No snow fell in the period and the snowfall was below normal.

Tikri.—Snowfall occurred once above 4570 m. in June. There was no snowfall in July. The snow accumulation on Drati Peak, Chaurasi Peak and Melhu Peak was between 5 cm. to 15 cm. at the end of June. No snow accumulation was observed at the end of July. The snowfall for June was below normal.

MAHASU DISTRICT

Kilba—Kailash.—No snow fell in July. No report was received for June.

Rampur.—No snow fell during the period.

KANGRA DISTRICT

Kulu.—The following table gives the accumulation of snow on some of the peaks of the Tehsil at the end of June.

Name of Peak	Accumulation in metres at the end of June
Hamta	1.8
Rohtang	1.5
Barsai	1.2
Bhojdhar	1.2
Chandar Khani	1.2
Lohriachhri	0.9
Bhubhu	0.3
Bashtairi	0.1
Mujhag	0.1
Sari	0.5

The accumulation on some of the peaks in the Seraj Tehsil was as under :

Name of Peak	Accumulation in cm. at the end of June
Sirikhand	61
Shepaku	15
Gargarasan	45
Lipuleg	23
Tirth	61

No report for July was received.

MANDI DISTRICT

Mandi Forest Division.—No snowfall occurred during the period. The snowfall was much less than the normal.

Suket Forest Division.—No snow fell in both the months. The snowfall was much less than the normal.

III—UTTAR PRADESH

TEHRI GARHWAL DISTRICT

No snow fell during the period.

GARHWAL DISTRICT

In June there was one snowfall the accumulation of snow amounting to 15 cm. at a height 1370 m. No snow fell in July. The snowfall was much less than the normal.

ALMORA DISTRICT

The total snowfall at some places during the period was as given below :

Name of Place	Total snowfall in cm.	
	June	July
Malla Danpur . . .	61	0
Malla Johar . . .	15	..
Malla Darma . . .	5	61
Byans . . . .	..	61

Accumulations on some important peaks in the region were as under :

Name of Peak or Valley	Snow accumulation in cm.	
	June	July
Kautela Peak . . .	5	5
Kafini Peak . . .	8	6
Bankatia Peak . . .	30	91
Bankatia Valley . .	46	106
Nanda Khat Peak . .	46	122
Nanda Khat Valley .	61	137
Sundardhunga Peak .	30	91
Sundardhunga Valley .	46	106
Panchchuli . . .	15	..
Nubbedhura . . .	30	..
Limpialeg . . .	..	122
Lipuleg . . .	..	61

August—September

I—JAMMU AND KASHMIR

NORTH BARAMULLAH DISTRICT

Gulmarg.—In August two light snowfalls occurred on 2 days on Afarwat and Handibal mountains while in September two light snowfalls occurred on Afarwat only, the total precipitations in these months on these mountains amounting to 15 cm. and 11 cm. respectively. Snowfall was above normal during the period.

SOUTH ANANTNAG DISTRICT

Srinagar.—No snow fell during the period at the station proper except that light falls were observed at distant high peaks in the region.

II—PUNJAB (I)

CHAMBA DISTRICT

Kilar (Pangi Range).—No snow fell at the station proper during the period except at height of 3050 m. where 3 snowfalls were experienced in September. At Sach Pass (ht. 4413 m.) the accumulation of snow was observed to be about 1.2 m. at the end of September which was above normal.

CHURAH

Tissa.—No report was received for August. In September there were 2 snowfalls, the total precipitation amounting to 36 cm. The snowline descended to 3660 m. The accumulation of snow at the end of period was 18 cm. at Chehni Pass. In this month snowfall was above normal.

Bhandal.—No snow fell during both the months. The snowfall was below normal.

Tikri.—It snowed twice in August at a height 4570 m. and thrice in September at a height 3960 m. The snow depth varied from 8 to 23 cm. in August and 10 to 25 cm. in September. The accumulations of snow on the peaks, passes were as follows :

Name of Peak or Pass	Snow accumulations in cm.	
	August	September
Drati Peak	15	20
Chaurasi	8	13
Mehlu Pass	5	8

During the period the snowfall was below normal.

MAHASU DISTRICT

Rampur.—No snow fell during the period.

MANDI DISTRICT

Mandi Forest Division.—No snow fell during both the months nor any snow accumulation was observed on high peaks.

Suket Forest Division.—No snow fell during the period and no snow accumulation was seen on higher peaks.

III—UTTAR PRADESH

TEHRI GARHWAL DISTRICT

No snow fell during the period.

GARHWAL DISTRICT

It snowed twice in August the depths of snow varying from 3 to 5 cm. at a height 4270 m. September witnessed 5 snowfalls with a depth of snow varying from 3 to 8 cm. at height 4270 m. to 4880 m. In September the accumulation of snow varied from 3 to 30 cm. on the high peaks. The snowfall was below normal for both the months.

ALMORA DISTRICT

The total snowfall at two different places was as given below :—

Name of place	Snowfall in cm.	
	August	September
Malla Danpur	8 to 15	10 to 86
Malla Darma	91	10 to 91

The snow accumulations on some important peaks or valleys were as under :—

Name of Peak or Valley	Accumulation of snow in metres	
	August	September
Kafini Peak	1.5	0.6
Bankatia Peak	3.1	3.1
Bankatia Valley	2.4	..
Nandakhat Peak	3.1	..
Nandakhat Valley	2.4	..
Sundardhunga Peak	2.4	2.4
Sundardhunga Valley	1.8	..
Pindar Peak . . . .	..	2.4
Nandadevi Peak . . . .	..	3.1

The snowfall was reported to be below normal during the period.

Post Monsoon Period

October—December

I—JAMMU AND KASHMIR

SOUTH ANANTNAG DISTRICT

Srinagar.—No snow fell in October. In November one slight snowfall was experienced on the surrounding high peaks. In December three snowfalls of light to moderate intensity were noticed, the total precipitation being 6 cm. The snow accumulation of 91 cm. was present on surrounding mountains upto the end of the period. During the period snowfall was about normal.

Patni Top—(Batote).—Snowfall was observed on two days in November and three days in December on the ranges of Eastern Pirpanjal (ht. 4109 m.), Sansar (ht. 2286 m.), Kud Peaks (ht. 2487 m.), Ensin Dhar (ht. 2704 m.) and Patni Top (ht. 2134 m.). The depth of snow at Patni Top in December was 13 cm. Snowfall was below normal both in November and December.

No report for October was received.

LADAKH DISTRICT

Kargil.—No reports for October and November were received. In December the total snowfalls on the Naktul, Sming and Hurker mountains were 3, 3 and 1.5 m. respectively, while the accumulation of snow on nearby peaks was 2.1 m. at the end of the month. The snowfall for the month was below normal.

II—PUNJAB (I)

CHAMBA DISTRICT

Kilar (Pangi Range).—Snow fell on one day in October, two days in November and three days in December amounting to 0.5, 0.5 and 10 cm. respectively. The respective accumulations of snow on Sach Pass (ht. 4413 m.) at the end of these months were 76 cm., 91 cm. and 5.5 m. Snowfall was below normal both in October and November, and above normal in December.

CHURAH

Tissa.—There were three snowfalls in October, two in November and one in December. The accumulations of snow on the passes were as under :—

Name of Pass	Accumulation of snow in Cm.		
	October	November	December
Sach Pass . . .	91	122	458
Chehni Pass . . .	106	167	..

In December snowfall was above normal.

Bhandal.—At higher elevations, there occurred three snowstorms in October, one in November and four in December. The depth of snowfall in December was between 3 to 8 cm. The total snow accumulations on the following passes were as under :—

Name of pass	Ht. in metres a. s.l	Total depths of snow in cm.		
		October	November	December
Gamguhal . .	3370	46	15	366
Padhri . .	3050	38	10	305

In December snowfall was above normal.

Tikri.—Snowfall occurred thrice in October above the height of 3660 m., thrice in November at a height 3050 m. and four times in December above a height 1980 m. The average depth of snow varied from 10 to 25 cm. in October, 8 to 91 cm. in November and 15 to 152 cm. in December. In November and December, at heights above 3660 m. and 3050 m. respectively, snowfall was common on cloudy days. The accumulations of snow on some Passes and Peaks were as under :—

Name of Pass or Peak	Snow accumulations in cm.		
	October	November	December
Drati Pass . . .	23	91	152
Chaurasi Peak . . .	18	61	122
Mehlu Peak . . .	13	30	61

The snowfall was below normal both in October and November and above normal in December.

Chamba.—December experienced two snowfalls, the snowline descending to 910 m. a.m.s.l.

MAHASU DISTRICT

Chopal.—No reports were received for October and November. In December snow fell on three days, the depth of snowfall being 5—15 cm. on each occasion, totalling to 28 cm. The snowline descended to a height 1830 m. On the higher peaks of Chatter and Chur the accumulation of snow was 91 cm. In this month the snowfall was below normal.

Shilaroo.—No reports were received for October and November. In December snow fell on three days, the total depth being 25 cm. The snowfall was above normal.

Pandrabis.—No reports were received for October and November. In December snowfall occurred on three days, the total depth being 25 cm. At the end of the month about 8 cm. of snow was still present at Gamoghati and at Pancha the depth of snow was 46 cm. The snowfall was normal.

Kilba—Kailash.—No snow fell in October. No report was received in November. In December there were two snowfalls at Kilba, four at Sangla and three at Purbani, amounting to 15, 84 and 61 cm. respectively.

Nichar (Tranda Range).—No reports were received for October and November. In December snow fell on 2 days, the total precipitation being 20 cm. The snowline descended to an elevation of 2130 m. All the passes were beyond approach on account of snow accumulation. The snowfall for this month was below normal.

Chini (Kalpar).—No reports were received for October and November. In December snow fell on four days, the total depth being 70 cm. The high peaks of the region in Haran, Brua and Sangla Ghaties were closed due to accumulation of snow. The snowfall was below normal.

Rampur.—Snowstorms occurred on one day in October and four days in December. The snowline descended to an elevation of 2440 m. (Daran Ghati and Hatu Peaks) in October, and 1830 m. in December. In December the accumulations of snow on Hatu and Daran Ghati peaks were 76 cm. and 61 cm. respectively. No snow fell in November.

Kumarsain.—No reports were received for October and November. In December the snowline descended to an elevation of 2130 m. The depth of snowfall on Narhanda peak (ht. 2743 m.) was 30 cm. The snowfall was reported to be earlier and was above normal.

Kotkhai.—No reports were received for October and November. In December about 90 cm. of snowfall has occurred on two days on the following peaks :

Naira (ht. 2290 m.), Joshla (ht. 2440 m.), Tahoo (ht. 2440 m.) and Chambi Kupar (ht. 2290 m.). Snowfall was above normal in this month.

Suni.—It snowed on two days in December, the total precipitation amounting to 41 cm. The snowline descended to an elevation of 1980 m. The depth of snow on the well known Shali peak (ht. 2743 m.) was 20 cm. at the end of the period. The snowfall was below normal.

Rohru.—No reports were received for October and November. In December the depth of snow at the peaks of Kharala and Sangri were 61 and 69 cm. respectively.

Jubbal.—No reports were received for October and November. In December snow fell on three days. The total depth of snow at various important places was as under :

Name of Station	Ht. in metre a. s. l.	Depth of snow in cm.
Sarain . . .	2209	43
Mandha Ghati . . .	2499	13
Tharaoch . . .	2080	20
Guarar . . .	2408	38
Talra . . .	3223	86
Deya . . .	2225	28

Name of Station	Ht. in metre a. s. l.	Depth of snow in cm.
Hatau	2103	20
Chopal	2342	23
Banali	2195	20
Kanda	2164	15
Lootkari	2438	28
Manalag	2530	28
Bhalu	1890	9
Reoshti	1981	10

The accumulations of snow on the following Passes or Peaks at the end of the period were as given below :—

Name of Pass or Peak	Elevation in metres.	Accumulation of snow in cm.
Talra	3223	61
Guarar	2408	28
Mandha Ghati . . .	2499	38
Manalag	2530	23

The snowfall during the period was below normal.

MANDI DISTRICT

Mandi Forest Division.—No snowfall occurred in October and November. In December snowstorms were experienced on six days. It was accompanied with strong cold winds. The depths of snow on some peaks were as under :—

Name of Peak	Elevation in metres a. s. l.	Accumulation of snow in cm.
Shikari	3350	61
Tungasi	2740	61
Raigarh	2900	46
Kashian	2440	61

In October and November snowfall was below normal, while in December it was normal.

Suket Forest Division.—No snow fell during the period. The accumulation on higher peaks and passes was above one metre at the end of the period.

III—UTTAR PRADESH

TEHRI GARHWAL DISTRICT

No snow fell in October and November. In December snowfalls ranging between 30 to 61 cm. were observed on three days on the peaks of Surkanda, Nagtiba and Dhanolti. The snowline descended to a height of 1830 m. Snowfall was above normal in this month.

GARHWAL DISTRICT

There were eight snowfalls in October, two in November and three in December. The depth of snow varied from 5—61 cm. in October, upto 30 cm. in November and 1—8

cm. in December. The snowline descended to an elevation of 3660 m. both in October and November and 1830 m. in December. During the period the snow accumulations varied from 5 cm. to 91 cm. on the surrounding higher peaks. The snowfall was reported to be below normal in October, above normal in November and normal in December.

ALMORA DISTRICT

The snowfalls at different places were as given below :

Name of Place	Total snowfall in cm.		
	October	November	December
Malla Danpur .	10-91	10-122	10-122
Malla Darma .	3-61	upto 30	upto 122

The accumulations of snow on some important peaks were as under :—

Name of Peak	Accumulation of snow in metres		
	October	November	December
Kafini . . .	0.7	0.7	0.9
Bankatia . . .	3.5	3.5	1.2
Pindar. . .	2.7	2.7	0.6
Nandadevi . . .	3.5	3.5	1.2
Sundardhunga .	2.7	2.7	0.9
Limpialeg . . .	..	0.9	3.1
Lipuleg . . .	..	0.6	2.1
Kautela . . .	..	..	0.1
Masurling . . .	..	..	1.5

The snowfall was normal during the period.

NAINITAL DISTRICT

Mukteswar.—No reports were received for October and November. In December light snowfalls were experienced on three days, the total precipitation being 11 cm. The snowfall extended to the surrounding peaks of Nainital, Ramgarh, Gaggarh etc. The snowfall in this month was below normal.

SUMMARY

Cold Weather Period—January and February.—Snowfall was below normal in Jammu and Kashmir, the Punjab (I) and Uttar Pradesh.

Hot Weather Period—March to May.—Snowfall was below normal in Jammu and Kashmir, the Punjab (I) and Uttar Pradesh.

Monsoon Period—June and July.—Snowfall was above normal in Jammu and Kashmir, below normal in Punjab (I) and in Uttar Pradesh.

Monsoon Period—August and September.—Snowfall was above normal in Jammu and Kashmir and below normal in Punjab (I) and Uttar Pradesh.

Post Monsoon Period—October to December.—Snowfall was below normal in Jammu and Kashmir and the Punjab (I) and normal in Uttar Pradesh.

N. B. :—It is not possible to adopt a single classification of seasons which will be satisfactory for the whole of India. The classification adopted in this publication is, however, considered as the most satisfactory one and the least open to objection especially from the point of view of rainfall.